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R. Holmes

1959 - 1964

Species Accounts – Part 4

*Erolia ferruginea* – *Acanthis* sp.

removal experiments

stomach contents

Mammals



R. Holmes

1959 - 1964

Species Accounts – Part 4

*Erolia ferruginea* – *Acanthis* sp.

removal experiments

stomach contents





Holmes, R.  
1962

Erolia ferruginea

8 June Barrow, Alaska

The birds of this species were seen with a group of 3 ♂♂ Pectoral Sandpipers in a small grass patch (remainder surrounded by snow) on the south side of Whiskey Flough - 100 yards in from Elson Lagoon.

I shot the larger of the two - when was also the lightest in color & it turned out to be a ♂ - Perhaps there were 2 ♂♂ - rather than a pair ??? No call notes were heard - The birds were feeding actively - in the same manner as the Pectoral or Dunlin - picking at the surface of the ground - not probing.

When the one bird was shot - the other individual flew off with the Pectorals - but returned & stood near the wounded ♂ for several seconds - then flew off. It could not be located during subsequent check of the entire area.

9 June 1330. - one individual seen in company with 2 White-rumped Saps & 3 Pectoral Saps - in the wet marshy area so. & somewhat w. (toward the lagoon) from Britton's Area. The bird flew off (and/or) about 300 yards away - & then moved on toward the north. About an hour later, it was seen again in the very wet



Holmes, R.  
1962

Erolia ferruginia

9 June Barrow, Alaska

pond-marsh area 20' W. of Voth Road in the same general locality - it then flew across the road + off to the north - not to be seen again.

The alert posture of the bird is similar to that for Alpeia but the neck <sup>appears</sup> ~~is~~ longer + so the head is carried higher + the sickle-shaped bill is more pronounced (may be accentuated by this longer-stretched neck). The call note is an often-repeated chi-dip, chi-dip... given in a high pitched - almost buzzy manner - has the quality of a Baird Scp. display note. There was also a zhipp, zhipp... note given on the ground - which is similar to (but high pitched - more like baird quality) the Dunlin's zhripp, zhripp.

Also when the bird would land after flying - one wing was held vertically for about half a second - then lowered quickly into the normal folded position.

11 June

2 birds located about 600 yards No. 1 Wohlsehlog Slough + adjacent to Elson Lagoon. - Watched for 1½ hours - as they chased back + forth over an area of high polygons + wet troughs - some sedge marsh to the W - just becoming free of snow.

When 1st seen - they were flying by at high speed - low over the ground - emitting a high pitched twinkling note.





Holmes, R.  
1962

Erolia ferruginea


3.

11 June Barrow, Alaska

They landed about 100 yards away - One bird going in to a hunched - posture with head extended forward - back + scapular raised. Then was then a flutter + wing -



+ a possible attempt at copulation (!) - Then both took off - flying in a low

long-lasting (2-4 min) flight over the tundra. The birds were never more than 6' off the ground - but covered an area 300 x 200 yards - The flight was not erratic - they flew directly - one behind the other - both birds using a full wing stroke  - but the beat was rapid & could not be considered a distinct display flight (i.e. not butterfly-like or moth-like - etc.) other than a chase. Several times upon landing, the chase went into a hunched posture - usually, however with neck pulled in + down - tail was always in natural



↓ head down  
further

position.

The note given in actual chase <sup>of the pr.</sup> was a quiet, high-pitched, twittering note - heard almost continuously.

Usually - the two birds would land separately - at least 20' apart - sometimes 100'.




Holmes, R.  
1962

Erolia ferruginea

4.

11 June Barrow, Alaska

Once the chase - set his wings at a wide angle  - just 5' from landing & gave a trill - wheel can best be described as a quiet - red-bon trill (ie not grating - more slow) or similar to the quality of the straight trill of bairdi (ie not the hoang, trill).

This is  
pattern chart  
1 FAP



or a whee-dle, whee-dle, whee-dle, whee-dle - given for about 2 seconds - only heard twice.

In the air - often just after taking off - give a sharp, loud - wheerb, wheerb - & then the swoosh. <sup>[4-part note]</sup> after landing - a wheerie - as given (maybe center - like?)

wheea, wheea



This is quite similar to the wheerie of bairdi - when disturbed - but the note is given here - toward the other bird - is perhaps a location note or invitation?





Holmes, J.  
1962

Erolia ferruginea

5

11 June Barrow, Alaska

In flight, the birds superficially resemble Red Phalaropes - due to the dark red underparts + snow white wing linings. - of course shape, posture, + behavior are radically different.

No wing flapping - seen from either bird.

12 June

The pair was located at 1020 + was watched for an hour or so. The bird would feed - usually within 30' of each other - then the ♂ would make his way - toward the ♀ + this would end in a courtship display (see below). As he would feed - the whine call was given + frequent trill-sequences - given in part or in their entirety

where

Tchuk, Tchuk - Tchuk - whee-ja, whee-ja, whee-ja, whee-ja,  
wheeja - jeerēpa - wheen

same

or

----- eeeee - jeerēpa - wheen

This is the entire sequence - 2 to 3 introductory - sharp notes - 3-6 trill notes - a sharp, loud, musical jeerēpa (whether of earlier notes) + then the whine was given. This entire sequence is given on the ground or




Holmes, R.  
1962

Erolia ferruginea

12 June Barrow, Alaska

aerial  
display

on the wing. The ♂ made occasional short flights - flying low over the ground - again never more than 6' above the ground - flight was with full wing beat but in two cases there seemed to be a slower - more deliberate - stroke - which may have been the aerial display. Once - as the bird flew - it was gliding a few feet above the ground - giving the wet wings held slightly up  - + two sequences of fast vibration<sup>(2-3)</sup> were given - at the same time - the whistle note was uttered several times. - Then the bird landed. However, no aerial display - with quivering wings - etc has been seen.

The ground courtship consisted of the ♂ raising one wing toward the ♀ - then both wings, raised - head held up - tail slightly down + fanned out:



see left  
diagram -  
wings are  
held at  
greater ∠  
+ the upper  
joint  
but as  
trip extends  
out.





Holmes, R.  
1962

Erolia ferruginea

12 June Barrow, Alaska

The ♂ would start out behind the ♀ - or facing her - but the two birds would walk back & forth in zigzag fashion - sometimes in front, sometimes behind the ♀. - thereby showing the white rump. She would then fly off - he would follow - sometimes giving the call in flight - both land & feed. No wings - up were seen upon landing - [only prior to the ground courtship & in the courtship display].

No long chasing was seen today - the birds would just fly 50-100 yards at the most - settle & feed. The ♂ often stood & fed in the hummocked pasture with scapulars & back feathers raised - head lowered - but not extended forward. Several times he sat into a depression - with tail and pointed wings pointing up - usually he then stood up & walked off - but twice he was seen to stay in the cup for at least 30 sec. The tail - being moved from side to side.

A copulation, <sup>or</sup> at least an attempt was noted - when the ♂ was standing on the back of the ♀ - with his wings quivering - He then jumped off - into the air - flew 10' - began feeding. This took place in the high, black-topped polygon area - No. 1 the main depression - see map later -

i.e. like  
C. aeneus

nesting?

copulation  
attempt



Holmes, R.  
1962

Erolia ferruginea

12 June Barrow, Alaska

In the afternoon, Pitelka and I returned to the Elson Lagoon site & quickly located the pair in the same vicinity as in the morning. The birds were going through the same routine as described above - feeding occupies  $\frac{2}{3}$  of the time & is interrupted by short courtship performances by the ♂, - often followed by short flights; chases of Dunlin - or in the case of the ♂ - brief stops to give the song, or the whine note.

1) Courtship

- a) Ground . as described previously but with wings held at a greater angle with tips flaring out at a  $60^\circ$  angle. The



head is held up & the tail depressed & broadly fanned. The male saddles in front of the ♀ and sway back & forth - Each time this was seen - the ♀ was observed to dash at the white-rump - or at least pick or thrust its head in that direction. In several cases it



Holmes, R.  
1962

Erolia ferruginea

9.

12 June Barrow, Alaska

went beyond the rump + the ♀'s head was under one wing before she withdrew it - i.e. short past the rump along the flanks of the ♂?

This courtship sequence is usually started with a wing flash by the ♂ to the ♀ - when she is just inches away - then he raises the other wing - lowers tail, etc.

song? - twitter (?) - see E.H.P.

~~the male~~

Also, the male is frequently in his hunched-over posture - even while feeding. As he feeds along - he would suddenly sit into a cypress, raise his tail end, then start walking again. Often he would run in hunched posture - like a mouse-run, to a particular cup, settle into it - go through the nest scraping - when tail + wings are waved back + forth in the air with the white undertail coverts flashing. This was noted in at least 4 places - within a 50' diameter. In one case, after the nest scrape, the bird stood up, picked at several pieces of grass around the cup + picked them up in



Holmes, R.  
1962

Erolia ferruginea

12 June Barrow, Alaska

the bill & tossed them to the side (not with the sharp toss seen in the species - where the grass is dropped into the cup at the side of the animal) but more off to the side. The bird then walked off, hunched over. In another nest cup, the bird was facing away from us & the feet were being used actively to dig out the bottom of the cup - several pieces of vegetation (moss?) were thrown into the air by the rapid scratching motion of one foot & then the other.

It seems that this nest cup-sitting & nest scraping is all part of the ground courtship display. The ♀ was always in the vicinity but usually, at least 50' away. The ♂ was very noisy during the nest cup sitting - once giving the trill phase (5 in 8 sec.) in succession for 2-3 minutes - <sup>(one of 23 units before pause)</sup> with short pauses at irregular intervals. (see Pitelka - for more quantitative measurements). At the end of this a couple of whines were given, the bird stood up - walked off (hunched).

The song is given on the ground as well as in the air & is part of the courtship - since it does not seem to be part of concerned with announcements. It has been characterized before - but a new rendition - ~ version is presented below.

→







Holmes, R.  
1962

Erolia ferruginea

11.

12 June Barrow, Alaska

CONF The song starts with several (1-5) introductory notes <sup>(may vary - pitch ~)</sup> - Tchuk; This is followed by a <sup>musical</sup> trill-like call - wheeja  which is repeated 3 to 7 times. ~~Then it follows~~ (Then, it shurred, would sound like the motor-churning of the semi-pal sdp - & when the bird in the air gave a long sequence // then it was very pusillus like). This is followed by a series of 4-5 notes which are high pitched & very musical ta<sup>ta</sup>-tée-tée. & then the whine: whaa . This is the complete song - the introductory notes, the 8 ms - song phrase &/or the whine are sometimes eliminated.

AERIAL COURTSHIP: Long flights seen yesterday are part of this. Today there were not noted (except 1 - just before we left the area the birds flew no. into the far edge of the high poly-gons). Short chases by the ♂ of the ♀ were seen about 3 times. The ♂ flew just behind her - at the same level above the ground (4-6'). The flights are generally fast - not erratic but the birds severer widely over the tundra, usually landing several feet apart. Once while in flight - the ♂ made several fast wing beats, catching up with the ♀ then set its wings (horizontal) for a brief time & gave 3 of the musical trill notes. In doing





Erolia ferruginea

Holmes, R.  
1962

12 June Barrow, Alaska

This, the head was pulled up + the posture was the same as the other *Erolia* (e.g. *agrippa*, *baileyi*) in their aerial announcement

Also in the flight - the bird (♂)  (wing up - horizontal) would fly slightly slower than a normal flight - with more deliberate wing beat - still using the full stroke -  - but just slowing the pace. This was different to debut - but was observed in several instances.

When the birds landed, no wing-flashing seen. Twitter + song were both given during aerial courtship.

## 2) TERRITORIAL ANNOUNCEMENT - DEFENSE +/or AGGRESSION

- No obvious displays noted - due probably to the fact that there are no other birds of this species nearby. However, the ♂ did chase a ♂ (displaying) Dunlin 4 times. Each time - the Dunlin was feeding near the Curlew Scp - the latter would hunch (tail in normal pos't) + run after the Red-back - both taking flight - the Curlew Scp in pursuit - giving the twinkling-twitter - as they flew off - erratically - over the tundra. Once they were 100 yards SW of the central Curlew Scp - the ♂ turned + came back. Flying swiftly + low to the ground (3'), landing somewhere near the ♀. On the return flight - he once



Holmes, R.  
1962

Erolia ferruginea

12 June Barrow, Alaska

gave the "slow flight" & the song was uttered. -  
so this could be involved in some degree of  
territorial or aggressive action. <sup>(b) This vibration from terr. encounter + song given to E. ferruginea.</sup>

At times the ♂ would interrupt his feeding  
to give 1-6 of the whooes & in one  
instance 24 were given - 1 every 2 sec - in  
succession. (These are produced by the bird  
taking in a large amount of air - ∴ putting it  
up - then making the sound on the exhale - ∴  
deflating. This pulsatory effect is quite  
noticeable - since the white rump is put into  
view with whoos & the sinker below the body <sup>first</sup>  
sequence on exhale). In giving the whoos - the  
bird is in an alert posture - usually - with  
head up - but not accentuated - as in  
some of the Rurilin displays.



Once as the bird moved in close  
to us - acting rather disturbed & nervous -  
(just after leaving a nest cup) - it gave a  
loud evk, evk, evk - whoos in very  
rapid & the alarm note or disturbance  
note of the Rurilin. As the bird came close  
to us, it remained in the hunched  
posture, acting nervously.

The ♀ once gave a loud - beede-beep  
or cheer-beep - & then resumed feeding. This

whoos  
beep

alarm

♀ call



Erolia ferruginea

Holmes, R.  
1962

12 June Barrow, Alaska

was heard once again just prior to a flight.

The musical phrase of the ♂ can be described as

musical trill - whee - tee - ti - ti - dee - whee

13 June - Pitelka & I returned at 1400. Spent 2½ hours searching for the pair - not excellent conditions for seeing & hearing, & no birds were located. Either they have moved off - & this courtship was performed during migration or a pair of turnstones with a nest in the same localized area had driven them off. However, the day before - no interaction had been seen between RT & the Sops.

The area inhabited by these birds has been a well developed polygon area with moderately deep troughs - grass - terry cover. Just to the north were high - blue-topped polygons - which were used occasionally & were flown over in chases. To the south were open flat fields of grass tundra with little polygonization. The area occupied by these birds was roughly 200 yards by 100 yards - but on the north - chain extended these boundaries. The total area was 100 x 200' - where most time was spent.





Holmes, R.  
1962

*Erolia ferruginea*

16 June Barrow, Alaska

Hines & I located several birds in the same area near Eism Lagoon. At least two pair (one with a lighter ♀) and a single bird (probably ♂ - dark red in color) + possible another ♀ - very whitish were seen. Two birds were fed see - then disappeared. The 2 pair + the lone ♂ were feeding about 100 yards apart - 300-400 yards south of the previous - center out - at the edge of the marshy, low - center polygons. One pair (looked like the one previously watched) were followed for about an hour. The birds fed along the polygon troughs + ridges. Once they stopped - sat - ♂ put head on back + bill tucked in scapular - lasted 5 minutes - then preened + continued feeding. No courtship was heard or seen - no whinnying, no hunched posture - no chasing - however, both birds remained together - never strayed more than 3 yards apart. One flight was noted - when the two birds took flight as a pair flew towards them - then they flew behind him in a semi-circle - finally settling down + feeding again.

This pair eventually flew off to the north - the ♂ behind the ♀ - giving the twinkling hover + in doing so - passed the other pair - who did not react in any way to this other pair. At the time the chasing



Holmes, R.  
1962

Erolia ferruginia

16 June Barrow, Alaska

Birds were 50 yards beyond the feeding area. The ♂ gave the aerial display - many introductory notes + terminal whine. They landed near the central area - fed for about 5 minutes, then closed to the north - in rather an erratic flight - finally landing along the bluffs - 200 yards N. of the high polygons.

Pitelka + I returned in the evening + 1 pair (with a "light" ♀, was located feeding about 300 yards S. of the central area. Soon after they were located they took flight - given north - landed near the central location + there was a great flutter of wings - behind a polygon - may have been copulation + then they flew off a long distance to the N.W. - landed 200 yds N. of the high polygon area. Later they were seen flying west - into the marshy country.

17 June

The light pair was noted feeding about 100 yards S. of the central area - along the edge of the marsh area. They kept in the company of 2 Turnstones - which had a nest nearby - whenever they flew - the Curlew Sps. flew with them - These 2 - probably 1st year Sps. - seem to have the Hocking's point's. The only calls heard - were call notes - of the type that introduce the song - chuck, cluck.



Holmes, R.  
1962

Erolia ferruginea

18 June Barrow, Alaska

Pair seen about 300 yards west of the  
gasline along beach ridge - The whistle  
waaaaaaa - was heard at 100 yds  
distance - later the ♂ chased the ♀ with  
the trundling trundle - upon landing  
assumed the hunched posture - no  
other display activity was noted. The  
pair was lost after about half a  
hour.

I joined Pitelka at the same area  
later in the evening. He had been watching  
1 lone ♂ & a pair. As we stood there,  
the ♂ was patrolling a ridge - 150 yds -  
flying - given the song (or sometimes throat)  
alighting - standing upright - (but yet somewhat  
hunched - ie droopy shoulders - not upright  
alert - as in Africa) - given the cubene  
call - which could be heard 400 yards  
away at the live plate. As he flew -  
he would fly low - ~~at~~ 3-4' off the  
ground, then rise to 12-15' - given  
the te-ta-ta-ta & the do be dissonant -  
the cubene was given. Upon descent  
he would land - continue to give the  
cubene at 2-3 second intervals

After a time -  
The ground (see sec.)





Holmes, R.  
1962

Erolia ferruginia

18 June Barrow, Alaska

to sev. minutes, - the bird would take flight & return to the other end of the ridge. Besides the where-oh components 1 or song - the variable introductory notes - the 'juicy' - two parted trill (chee-ah) - was given - several times in succession.

The other ♂ was busy attending the ♀ - he remained in the hunched posture - running fast - then stopping to feed & running again. For much of the time - the ♀ was not to be found - but several times there was a chase - with the ♂ giving the twist - Once the ♂ - giving twist - flew to vacant / the patrolling bird - landing nearby - it assumed an agg. posture with head forward & down - pulled in the body, wings down, tail drooped & spread - scuttling toward the other bird which immediately took flight - The other bird returned to the vicinity of the ♀ & continued feeding. This was the only territorial encounter noted.

This pair consisted of 2 well-matched mature ♂♂ & a rather dark ♀. The habitat was a smooth grass-feeze tundra - been patrolled by the lone ♂ & a wet lowland - pine-spruced marsh - where the pr. was located.

Ground  
capture





Holmes, R.  
1962

*Erolia ferruginea*

19 June Barrow, Alaska

In the morning - Pitelke & I could not locate the pair. A heavy wind was blowing - making hearing difficult. In the P.M. Sullivan did not see the bird along the beach ridge area.

22 June - Pitelke & I checked the beach ridge west of the gasoline. After an hour - we finally heard a whistle note & located a pair further north - on the high polygon - 200 yards so. of middle salt lagoon. The ♂, soon after we saw him, fed up to a low grassy mound - & settled into a depression, giving a nest cup display - with tail & pointed wing status into the air & moving them back & forth. After 30 sec. - it stood up, walked off feeding. The ♀ could not be seen in the immediate vicinity. Later, she was seen to the west.

nest cup display

The birds continued to feed, the ♂ occasionally running in a rodent-run manner, but back feathers were not ruffled & there was less of this than in previous sightings of courting pairs. The ♂ made several short, low flying flights - giving the full (aerial) song or parts thereof. Also, the doublets were given infrequently from the ground.

song from ground

When the ♀ was last found, she was feeding



Holmes, R.  
1962

Erolia ferruginea

22 June Barrow, Alaska

along several polygonal troughs & finally, made her way toward the ♂ which had been doing a nest-egg display for about 60 sec. - She walked up to him, stood beside him for several seconds - He stopped aside, - ~~but~~ but kept tail cocked, head half way forward, & stood only a couple inches away, while she appeared to stop with the cup-turn in several directions & finally - more off feeding. All the while the ♂ was the with tail cocked & giving the doublets. After she left, he also resumed feeding activity. Later, both birds flew to east-100 yards - ♂ giving trilling notes & displaying just before landing by rising up to 10' in a gentle arc & giving the ti-ti-ti-dee & whine as he came down & landed, with wings held up for 1/4 second. The ♀ landed 30' away - The ♂ made her way to her - giving two short doublet sequences & <sup>1 whine-ti-ti-dee</sup> upon reaching her, made two complete circles around her (almost touching her), giving two whines, finally stopping & standing beside her - but birds remaining motionless for about 30 sec. Then he turned, jumped onto her back - stood there with vibration wings

nest egg

avoid flight

& vibration




Holmes, R  
1967

Erolia ferruginea

21

22 June Barrow, Alaska

for 30 seconds - abdomen depressed toward the end / This time + possible copulation - [but doubtful!]. He jumped off - & both birds remained motionless for a second or so. After several minutes of feeding, they both barked & preened at a nearby pond. [after copulation - gave <sup>ti-tu-tu-dee-tu-tu</sup> & whines]

The ♂ made a long display flight, flying up at a gradual angle - but eventually reaching an altitude of 150' - giving the song - but flying as in normal flight or occasionally with a slightly slower wing beat (like barids) circling once twice + then flying back toward the polygama - setting his wings horizontal (while still at 100+ feet) + gliding down to the ground . The area covered by the flight must have been 10 ± acres. Once while it was flying - a sequence of doublets was heard + the song he glided in - The whole song was given. One other flight of small distance was noted - when he flew south about 300 yards + apparently landed on the edge of a bluff. He returned a few seconds later - singing the song.




Holmes, R.  
1967

Erolia ferruginea

22 June Barrow, Alaska

Apparently long, high display are given - This may have been in response to another bird of this species - since the area to which he flew was new when a pair were noted several days ago.

As the pair was feeding, the ♂ again gave a weak nest cup display, consisting of a standing in a depression - raising angled tail & folded wing tips & then turning 45° stopping for  $\frac{1}{4}$  sec - turning another 45° - etc. - no settling or waggling was noted.

Both birds fed a - finally or I should say suddenly the ♀ settled into a depression, 1st standing & then sitting - with tail & wing tips in the air - moving in several directions. By this time, the ♂ was standing 3-4" away with tail raised, wings may have been slightly dropped - head forward but not horizontal with the ground  - gave

doublet (all that we could hear was one or two sequences of doublets - but bird's body was moving more frequently - & there may have been more vocalizations). After about 45 sec,

the ♂ moved off - running in hunched posture - feeding - running again. The ♀ remained in the cup for  $2\frac{1}{2}$  minutes - during this time, she picked pieces of grass





Holmes, R.  
1962

Erolia ferruginea

22 June Barrow, Alaska

or sidg from the edge of the nest cup throwing them to the side (both - right - left - usually alternated) & into the cup. At the end of her stay in the nest - she stood up - flew off - both birds again feeding. This is the best indication to date of nest-building - perhaps the ♀ chooses the actual site for the eggs & does the building of the nest cup - she finishes a cup started by the ♂ (although - the ♂ had not displayed any where near where she was working - during our observation).

The frequency of whines was low today - not more than 5-7 were heard during the 1½ hours while we were observing. The doublet phrases of the ♂ are more musical & rhythmic - not as distinctly two-parted as some of the songs heard earlier, i.e. at Eisa Canyon.

Alarm note - whit, whit - whil, ... given twice - I gave it once after Styr, by us & landing 20 yards away. - she then ran off - feeding (note given after landing). Later ♂ - gave one note while standing - a poly-syllabic - apparently in response to a Pomarine Jaeger - as it flew towards the bird & as the jaeger flew on the ♂ crouched - but continued given the note - at 10 sec intervals (i.e. slower than before at 2.3 sec intervals).



Holmes, R.  
1962

Erolia ferruginea

27.

22 June Barrow, Alaska

Pitelka & I returned during the afternoon but the birds were generally inactive - spending most of their time feeding or - one case - sleeping - (or resting) on a polygety - at which time we could approach to within 10' of the two birds.

23 June 0530 - 0730. Weather clear - light wind. Recorded songs (1) of Curlew Sandpiper. <sup>The</sup> Birds at this time of day were very quiet. The ♀ was only seen once - when both birds flew - heard no Herring note. Later the ♂ chased a Baird Sdp. by following behind it - in an erratic flight - giving the twitter - after flying about 300 yards - he turned upwards <sup>(~70°)</sup> made a large arc & leveled back toward the central area - gliding on outstretched wings during most of the return flight & giving the song in its entirety. He again chased a Baird but only for a short distance & the returned flying normally - giving the song (on tape). Note from yesterday - the bird gave several bairei - but seemed to pay no attention to olyria or parilla. Also Turnstone were frequently present & no attempt was made to chase them by either member of the pair.



Holmes, R.  
1962

Erolia ferruginea

23 June Barrow, Alaska

Another ♂ was found - about 100 yards east of the beach ridge (curry-magnetic station) & 200 yards so. of the sea-plane landing lake. It was in an area of small ponds & moderate polygonal ground - The whistle was heard several times from a distance & the ~~the~~ part of the song (doublet) was noted. During the next hour the bird was watched - once it chased a bird - both birds flying close to the ground - the Curlew Sdg. giving the harsh note. The chase lasted only about 30 sec - the C. Sdg. returned to a mound - gave several whistles & remained standing quietly for several minutes. In the field & after half an hour - it flew off to the so.-w. - at which time I lost track of it [it was not very far - but was not found during a canvas of the area afterwards]. When I <sup>1st</sup> found - thought I saw - 2 birds <sup>(C. Sdg.)</sup> chasing - but I am not sure.

25 June After waiting for 10 minutes in the central activity area on the beach ridge - I heard two whistles from the ♂ - who was further to the west.



Holmes, R.  
1962

Erolia ferruginea

25 June Barrow, Alaska

He was flying east & landed near the orange stakes - then started & flew. When a bird flew up nearby, he followed, flying close behind the other individual for about 50' - then turning away, gliding & uttering 6-8 doublets & the musical 4-parted phrase - before returning to the chase - Both birds climbed to about 80' - & flew off to the SE & out of sight. Presumably the Curlew<sup>Salp</sup> landed - but not - for he did not return to the area while I was there (another 10 min.). And as the two flew off - the Curlew made a circle in the air - gave 3-4 whistles & then continued the chase. The ♀ was not seen during the half hour spent in the area.

26 June - 2 birds (at least 1 was definitely a Curlew Salp.) ~~Chasing~~ flying together - last are Regulus - circling meadow lake & crossing the beach ridge near the W. row of beaver antennae - moving No. - & finally landing somewhere between the P.O. site & the magnolia statia(?). The ♂ was not seen again during the morning (except two when - while I talked & thought he heard?). After sitting - he continued for 20 min -





Erolia Serruginia

26 June Barrow, Alaska

The ♀ appeared, stood on a mound - preening her-  
self - & then just stood there for several  
minutes - looking about - but not feeding  
or acting nervously. Finally, she flew  
to the ridge to the south. During the next hour,  
she flew 2 to 3 times from the central  
area - over the ridge & back. Finally, she  
disappeared in the central area & she was  
flushed from the nest - which contained three  
eggs. One bird seen in evening - what was it? W. of B. R.

27 June P. lilla reports nest with 4 eggs at  
1300 - ♂ nowhere to be seen.

28 June. None seen E of magnetic station + none at E km lagoon site, but in driving along the north side of Wobbschlo - just SE of the south end of Block Ridge - a ♀ was flushed from the nest, which was found to contain 4 eggs. Its location was on the south side of a low polygon among a patch of grass + sedge (where as half the polygon was scarcely vegetated - much peaty + lichen-moss covering). Turnstones were in the vicinity - as has been the case in all the other sightings.

The bird did a 'rodent-run' type  
distracted display - with head down &  
pulled back into the body - both feathers  
ruffled. Wings held slightly away from



Holmes, R.  
1962

Erolia ferruginea

28 June Barrow, Alaska

The body + fluffed, tail depressed + fanned - The run-off through the polypropylene troughs - giving a squeaky call note. She returned once + sat on the eggs - while I was standing near the wheel - 40' away.

29 June Pitelka, Holmes, + I returned to nest #2 at 0900. The ♀ was on the nest and did not flush until we were within 6'. The distraction display consisted of fluffing 1 to 4' in the air - while we were near the nest. If we turned away + appeared to follow her - she went into the rodent-run posture as described above. No wing-flapping or violent shaking ~~was~~ as seen in laurens was noted.

If we returned to the nest, she would return fly into the air, have one beaten wing while just 2-3' off the ground. Finally - running around + twice sitting on the nest - while we were just a few feet away - very broody + paid <sup>less</sup> ~~no~~ attention to us. - than other calidrine do. Photographs were taken by Pitelka + R.

30 June

Nest #1 EMPTY at 1330. No sign of the birds.

Display cage - male by ♀ checked - was fully lined - 3' - diameter - on small polypropylene among relatives tall + dense vegetation.

Nest #2 - ♀ incubation - allowed close approach for photos.



Holmes, R.  
1962

Erolia ferruginea

3 July Barrow, Alaska

1115-1120 - checked nest near Wohlshlog  
- ♀ was still incubating. She did not  
fly until I was 6' from the nest - &  
at this time - she flew up in front of  
my face - hovering 3-4' off the ground  
- giving the loud - annoyed squealing  
sounds. As I walked off - she  
gave - rodent-run or describe  
previously - but the time would  
fly 6-10' in air & keep ahead  
of me.

4 July 2000 - ♀ not in nest & was not seen  
during 5 minute search - but eggs  
were there & warm - so she probably  
was off feeding.

6 July 1400. ♀ was sitting in nest - she was not disturbed

8 July 1100. Nest #2 - Gone - no sign of ♀ & young  
eggs. Returned at 1400 - walked around  
the area - but nothing! With the number  
of jaegers around (Parasites - L-t.) -  
the chances for predation being the  
reason for the loss is great. Almost  
certain they would have hatched by  
now. Nest cup with no sign of egg &  
young.



Holmes, R.  
1959

Micropolema himantopus

9 August Barrow, Alaska

Three birds were seen on Footprint lake, and one was collected (#185). The birds were just changing from their summer to fall plumage with a mixture of reddish grayish plumage. The long legs and white upper tail coverts are diagnostic. The three birds were seen feeding among a group of 13 Pectoral Sandpipers.

21 August Barrow, Alaska

One seen among a group of 3 Pectoral Sandpipers just no. of Voth's Area. They were feeding among a cluster of Arctophila - filled polygonized Pools.





Holmes, R  
1963

"Micropalama" himantopus

7 June Barrow, Alaska

1 bird with flock of 14 ♀ pectoral sdg. - feeding in marsh troughs along E/S mill luff - half way between Wohlsehlag + E/S on lagoon.

The bird was large the m & PS + grayish in color - more like baridi on the back. Legs were long + in flight they projected beyond the tail - also white upper tail coverts (possibly white lower tail) were conspicuous.

The bird fed by probing to bottom of water in troughs or jabbed shallowly into the sod surface, as the pectorals were doing.

One call note heard was a relatively deep <sup>or R-r-r-r</sup> Rau - erk - erk ———. The last two phrases were sharp. Later, when flushed by ♂ PS (chasing another ♂ PS who was nearby), the stilt gave a very sharp, metallic - kik, kik.

Micropalama  
himantopus

is now

Calidris himantopus  
(stilt sandpiper)

per AOU 1998



Holmes, R.  
1966

*Tryngites subroticollis*

25 Aug Barrow, Alaska

One adult? seen & collected  
along the top of the beach  
ridge, west of the magneti  
station



Holmes, R.  
1962

Tryngites subrutticollis

23 June Barrow, Alaska

1 individual seen feeding with a  
flock of pectorals in the marsh - east  
of the B.R. + 40 yards west of Elson  
Lagoon.



Holmes, R.  
1959

*Limnodromus scolopacea*

7 August Barrow, Alaska

One seen between Skrit Slough and Wohlschlag's Slough. feeding in soft mud with other sandpipers.

18 August Barrow, Alaska

A flock of 11 was present on the south-end of Freshwater lagoon. They were feeding in the shallow ponds + mud just 2 feet from the lagoon. They were all molting (body). No wing molt was noted.

19 August Barrow, Alaska

150 were present on Footprint Lake feeding among Red-t. sandpipers. They were also molting the body plumage but not the wings. Four birds were collected.

21 August Barrow, Alaska

Small groups of 10-15 birds were feeding among the flooded ponds in the so. half of Footprint Lake. A total of 200 birds was present.

23 August Barrow, Alaska

Small groups of 10-15 birds were seen again on Footprint; however, less birds were seen today with an estimated total of 100 being present.





Holmes, R.  
1959

*Limnodromus scolopaceus*

2.

26 August Barrow, Alaska

A flock of 16 was present on a small pond just so. of Fresh-water Lagoon. Several small groups (10-15) were present between Voth's Area and Footprint Lake, and approximately 250 were on the southern half of F. P. Lake. All those that were seen were feeding among the mud and shallow pools.

27 August Barrow, Alaska

Small flocks of 8-12 birds seen east of the Beach Ridge and west of Clean Lagoon. A few individuals were flushed from the sides of some of the pools. About 50 birds were seen during the entire morning.

28 August Barrow, Alaska

Two groups of 10-15 were seen west of Footprint Lake - feeding among small pools and aspen areas of sedge & grasses. None were noted in Footprint Lake.

30 August Barrow, Alaska

Three seen north of Voth's Area during the evening.



Holmes, R.  
1959

Limnodromus scolopaceus

3

31 August Barrow, Alaska

A small flock of 12 was present along the shore of the creek which drains Vogt's Slough. Large numbers (5-600) were on the south end of Footprint Lake and a flock of 125 was seen on the north end of the lake (on the trip down + on the return trip). This was the largest concentration of these birds seen in this area to date. They were extremely abundant + many more were hidden the grass, so the estimate given above is probably conservative.



Holmes, R.  
1960

Limnodromus scolopaceus

3 July Ikroavik, Alaska

Two seen flying near south end of Ikroavik.

3 August Barrow = So. Barrow 3, Alaska

6 seen together just north of So. Barrow 3.

6 August Barrow = Ikroavik, Alaska

A flock of 64 was present in the southern half of Footprint Lake.

8 August Barrow, Alaska

Two seen on a pond on Gostine Ridge

13 Aug - Small flocks seen in Central marsh. Most were immatures.

15 Aug - None were in Footprint Lake, but a flock of 16 was seen just west of the lake near Low Pond.

22 Aug - Flocks of 20-30 are still present in Central marsh, but the birds are generally not very common (W. J. Maher).

25 Aug - A group of 12 seen on the ponds west of Fresh Lagoon.

30 Aug Three birds seen together in Central Marsh.



Holmes, R.  
1961

Limnodromus scolopaceus

9 June Barrow, Alaska

2 indiv. seen feeding with a Koch's Pectorator  
in the NE corner of central marsh.

10 June - 1 seen flying SE over Voth area.

11 Aug 3 seen in central marsh - near the  
magnetic station + then 6 seen  
further west in the marsh - S. of AACs.  
all appeared to be immatures.





Holmes, R.  
1967

Limnodromus scolopaceus

Barrow, Alaska

- Mullen saw & shot one individual in the  
dum area behind APL (see D.A.M.#1)
- 8 June - 2 birds seen feeding along a water-  
filled polygo trough - near Elson Lagoon  
(No. of Woblesbles). The pair was not  
collected (By bill length - seemed to be  
♂ & ♀).
- 9 June One bird displaying over barrel ridge (between Britton  
& Voth area). Call note in display quite  
similar to griseus but higher pitched.  
It gives several liquid notes & then a  
twanging trill-like call. The form of the bird  
in display was to fly in circle - widening -  
widening & then gliding a down-curved wings -  
while giving the call notes. There was no  
flight to 30' the gliding back to the ground  
as seen in griseus - but the bird would  
glide in circles at about 75-100' above  
the ground. This lasted for just a few  
minutes & then the bird flew off to the west.
- 10 June Two birds seen feeding at the north  
base of barrel ridge - in the marshy area  
there. - Appeared to be pr - by bill.
- 11 June Pair seen near Elson Lagoon - No Woblesbles -  
one was heard displaying (annally)  
later. - probably was one of the  
two seen previously.



Holmes, R.  
1962

Limnodromus sclopaacus

2.

- 16 June Barrow, Alaska  
One heard displaying near the beach ridge -  
east of the magnetic station.
- 17 June One heard displaying near Eisa Lagoon.
- 29 June 1 heard displaying on the flat near Treppe  
IIA+B - NW of OOD Area.
- 2 July One heard displaying at south end  
of NW 4 areas - Ikroavik Flat.
- 18 Aug Three flocks - each of about 30-35 birds -  
on Central marsh + NW of the magnetic station.  
All appeared to be juveniles.
- 19 Aug 4 immatures seen on the ponds toward  
the Point.
- 21 Aug 4 imm. seen so of Gueline R.
- 25 Aug Flock of 18 along ponds near Fresh Lake, Abn  
/ 14 so of Foster Ridge.



Holmes, R  
1963

Limnodromus scolopaceus

15 June Barrow, Alaska

One displaying on census plot

11 June 2 feeding in central marsh - east of No. Meadow Lake

22 June One feeding - small pond on beach right then flying into the marsh.

26 June Flock of 10 flying E. over BR & EISA marsh - then out over EISA lagoon

29 June 4 along inlet to NW end of Ikroavik

1 July Two separate individuals found feeding - 1 on north side & one - south side of gas line ridge - not far (10 yds) from the 10.0 end of Trough 1 & II. Pitelka had seen them earlier in this spot - may be nesting?

3 July Two <sup>over</sup> display - songs were heard in the census plot today. The song is fast & partridge-like - in quality - with rhythm following

je-di-di-di - <sup>nest</sup> - dee

pattern.

7 July 2 flying east over census plot - 1 gave the aerial song.

9 July One on NW side area

7 Aug 1 in central marsh

13 Aug 3 in marshy furrow east of fertilizer plots.

15 Aug Flock of 15 south of central marsh. 1 flying over camp.

20 Aug Flock of 6 to 15 - south of gas line ridge & 2 ex. individuals - well incubated.



Holmes, R.  
1963

Limnodromus scolopaceus

7.

22 Aug Barrow, Alaska

At NE corner / central marsh - nearly 150± immatures were feeding - when flushed all flew up together, circled & then landed later - group of 5-20 were seen in the southern sector of the marsh & near the fertilizer plots.

23 Aug - 100+ on central marsh & a group of 12 near fuel tank - on 1 these birds upon returning from a feeding - set wings in downcurved posture & gave 3 sequential loud display song - could not see bird after turn & determine age.

25 Aug Heard 18 near AAS - saw scattered small groups - set feeding ridge





Holmes, R.  
1964

Limnodromus scolopaceus

- 7 June Barrow, Alaska.  
2 feeding near some other in mud flat at  
NE corner of central marsh.
- 12 June 1 aerial display song sequence heard  
from bar - the bird seen, captured when  
west of No. meadow lake.
- 26 June 1 displaying south-west of justice ridge.



Holmes, R.  
1959

Capella gallinago

5 June Barrow, Alaska.

1 individual seen in small  
exposed area of tundra near the  
Base.



Holmes, R.  
1962

Steganopus tricolor

[9 June 1962]

Barrow, Alaska

1 collected in Britton's Area. It was  
probably a 1<sup>st</sup> year bird - see specimen

Steganopus tricolor  
is now

Phalaropus tricolor  
per AOU 1998



Holmes, K.  
1960

Lobipes lobatus

21 June Ikroavik (Barrow), Alaska

1 seen with a group of 6 Red Phalaropes. They were all feeding in a marshy swale in melt off waters near the 2nd inlet into the lake.

16 Aug Ipevikh Lake, Alaska

75-100 present in the lake near the island. They were feeding above a gravel bar which was underwater.





Holmes, R,  
1961

Lobipes lobatus

11 June Barrow, Alaska

one seen in central marsh

28 July Gull Lake, 50 m SE of C. Lisbourn, Alaska  
50+ seen near the island - The lake.  
most were juveniles.



Holmes, R.  
1962

Lobipes lobatus

14 Aug Barrow, Alaska

8 seen on "gravel pond" near Britton's  
area in company with 30+ Red  
Phalaropes — all birds (of both sp)  
were immature.



Holmes, R.  
1963

Lobopis lobatus

15 June Barrow, Alaska

Pair along creek - near 10.4 m. ~~thinned~~  
census plot - - feeding

3 July 1 on footprint lobe ponds



Holmes, R.  
1964

3 Lobos lobatus

14 June Barrow, Alaska

1 along north edge of central marsh - near food ridge.

20 June 1 in Fresh Lake

25 June 1 in Footprint Lake





Holmes, R.  
1959

Phalaropus fulicarius

1.

7 June Barrow, Alaska

Two ♀♀ seen on the lead-feeding actively.

12 June Barrow, Alaska

One ♀ seen in a small ice-surrounded pond - 20 yards behind ARL Bldg.

13 June Barrow, Alaska

2 pr. seen on the ponds just west of the drum area. They were feeding in the shallow icy water. The direction of feeding was counterclockwise.

14 June Barrow, Alaska

2 pair were noticed on the tundra near the west side of Voth's Slough. In both cases the ♂ remained on the ground while the ♀ flushed (or in one case did not settle and continued flying).

15 June Barrow, Alaska

Two pairs seen on pond near dump behind ARL. When they approached each other at one end of the pond, one of the females took an aggressive action and drove the ♀ of the other pair and then turned back and drove off the ♂. The ousted pair retreated to the other end of the pond and began feeding again. After several minutes



Holmes, R.  
1959

Phalaropus fulicarius

2.

15 June Barrow, Alaska

They moved down to the other end again and the "rudent" female drove them off again. Apparently the one pair has established some territorial boundaries. The method of feeding was again noted, and the birds moved both clockwise and counter-clockwise.

19 June Barrow, Alaska

Many pairs of these birds are now seen and heard over the tundra. They can be seen on the small ponds or on the tundra itself. Nesting does not seem to be underway yet.

23 June Barrow, Alaska

Many birds seen in the area east of the beach ridge and near Olsen Lagoon. Most birds were females although a few males (paired) were noted. Several cases of chasing were seen where 4-9 females would be fighting over one male. They would all be flying (fluttering) around the male, sitting down and then flying again. Some would try to chase others off but they would usually return. The male would become all excited during these actions and would

fly a foot or two off the ground and hover slightly as if it were trying to shove off the female. The gulls would quiet down when the male would straddle close to a female and now and then struggle up to her. The remainder of the ♀♀ would then fly off or fly a few feet away and settle down again. After several minutes, the fight started again.

25 June, Barrow, Alaska

Several large flocks (40-50) were noted in the vicinity of Elm Lagoon. Pairs were also frequent in the small ponds. Females, however, far outnumbered males.

30 June, Barrow, Alaska

From 10-20 females were present on freshwater lagoon. Two pairs even noted in the small ponds, just west of the room.

2 July, Barrow, Alaska

At 1400, about 100 females were present on freshwater lagoon. They were scattered along the string of narrow water while feeding and would fly when a weasel came near.

Holmes, R.  
1955

*Phalaropus fulicarius*

4.

6 July Barrow, Alaska

A nest was located So of the drum area and about 50 yards west of A.H.C.S. It was within 6 inches of a small pool of water and was well concealed by the <sup>surrounding</sup> grasses. The eggs were four in number and were light green with heavy, large, black or brownish spots near the large end and smaller spots down toward the small end. When the male flushed from the eggs, he gave a distraction display which did not appear to be as elaborate as the other shorebirds. It hunched over with the feathers on the back just slightly raised. The tail was dropped, but not spread and the wings were slightly drooping. This display was given for several seconds and was accompanied by the usual sharp 'click' note. Only 6-12 females have been noted in freshwater lagoons during the last few days. None were there during the morning or afternoon today.



Holmes, R.  
1959

*Phalaropus fulicarius*

7 July Barrow, Alaska

Several seen near Elsa Lagoon and near A.A.C.S.; however, they were not present in any numbers. Most birds seen were males.

8 July Barrow, Alaska

Groups of 20-30 were seen - The ponds in Voth's Area. The majority were females, and some had started to molt.

9 July Barrow, Alaska

A male was collected on the trapline in Voth's Area. His brood patch had started to become feathered and he was molting all over his body. The wings, however, had not started.

13 July Barrow, Alaska

The nest in the area near A.A.C.S. hatched in the last 3 days. Three young were seen about 10 feet away. The male became very excited and did somewhat of a broken wing act trying to attract my attention. He would lean and the turn up so that his neck





Holmes, R.  
1959

*Phalaropus fulicarius*

6.

13 July Barrow, Alaska

was on the ground and then flew his wings. This lasted for only a few seconds, then he would fly off and call loudly. The chicks had very large legs and feet and were rusty colored about the head.

14 July Barrow, Alaska

50-75 present in shallow ponds near the South end of Footprint Lake. The majority were females.

16 July Barrow, Alaska

Several birds were seen here and then on the tundra on the beach ridge and Wohlseh Slough area. Mostly seen were males which evidently had young, for they were very excited.

18 July Barrow, Alaska

Several males seen just S. of Footprint Lake; otherwise these birds have become quite scarce. Occasional birds were seen along the beach ridge near ATES during the morning.

20 July Barrow, Alaska

Several individuals were seen in



Holmes R.  
1959

*Phalaropus fulicarius*

7

20 July Barrow, Alaska

Footprint lake among the small ponds and flooded regions. Most seen were males

22 July Barrow, Alaska

A flock of 15 males was seen on the flooded areas of the southern half of Footprint lake.

24 July Barrow, Alaska

Three individual males were seen near the COTT's Area, and a group of 6 were on the beach ridge during the morning.

28 July Pitt Point, Alaska

About 6 males were seen during the hour spent in observation

29 July Barrow, Alaska

A group of 30 were seen in the south end of Footprint lake. These were all males.

31 July Barrow, Alaska

None were seen in COTT's Area or in central marsh or Wohlsehlot's Slough area.

1 August Barrow, Alaska

6 were seen in the southern part of Footprint Lake. All were molting males & imm.

4 August Barrow, Alaska

Three juveniles seen on Freshwater lake. These were collected & saved for Medicine.



Holmes, R.  
1959

*Phalaropus fulicarius*

8

6 August Barrow, Alaska

Groups of 6-20 birds were seen on Footprint Lake. All of these birds were molting; the body was whitish white the top of the head was bluish-grey. The reddish color of the body was still evident in some individuals. Apparently these are immature birds and are now the most common.

9 August Barrow, Alaska

80-100 seen - Footprint Lake - mostly immatures.

11 August Pitt Point, Alaska

About 15 immatures seen at the pond within 2 miles of the base.

13 August Pitt Point, Alaska

6 immature birds were seen today, scattered over the tundra in the small pools, etc.

15 August Pitt Point, Alaska

2 immatures seen, and 1 was caught in trapline T4.

19 August Barrow, Alaska

About 15 were present on Footprint Lake; these were all immatures. Flocks of 100-150 were observed



Holmes, R.  
1959

Phalaropus fulicarius

9.

19 August Barrow, Alaska

along the waterfront between the gun line road and the north end of the base. There were just at the edge of the water and were apparently trying to ride out the storm. I would estimate between 1500-2000 were present - all were immatures.

21 August Barrow, Alaska

4 immatures seen in Footprint Lake. No others noted on the tundra, but 100's were present along the ocean edge. All of these were immatures.

23 August Barrow, Alaska

About 600 birds were present along the shore in front of the base. These were all immatures and were feeding among the chunks of ice that were present.

26 August Barrow, Alaska

Three individuals seen in Footprint Lake. One was collected and had begun to molt its dorsal feathers. A flock of 7 were seen flying over middle saltwater lagoon.





Holmes, R.  
1959

Phalaropus fulicarius

10.

27 August Barrow, Alaska

1 seen east of the beach ridge.  
Approximately 200 seen along the shore between ARC and Murdock. They were feeding in shallow water between 5 and 15 feet off the shore and were feeding in the characteristic phalaropus way - that of spinning circles.

28 August Barrow, Alaska

Between 200-300 birds were present along the surf between the base and the turnoff to the gas well. There were all feeding and ranged from being on shore out to 50 feet from shore.

31 August Barrow, Alaska

Three molting (birds) immatures seen on Footprint Lake.

1 September. Barrow, Alaska

A flock of 12 flying North<sup>east</sup> along the shore near Middle salt water lagoon.

3 Sept. Barrow, Alaska

A group of 6 flying NE along the shore of the Arctic Ocean (in front of the base).



Holmes, R.  
1959

*Phalaropus fulicarius*

11.

5 Sept. Barrow, Alaska

One flock of 13 seen flying NE  
in front of the base. One  
dead immature was brought  
in from the Tide Station by Ditzler.



Holmes, R.  
1960

Phalaropus fulicarius

2 June Barrow, Alaska

2 seen flying over central marsh by Maher

3 June - 2 pair seen - The small, ice-choked ponds along Elson Lagoon between Uood + Ootjikh.

5 June - many flocks of 3-15 were seen between Barrow + The Inuvik River. These were usually seen moving (flying) but occasionally a group would alight on a pond or marsh. Several pairs were seen.

6 June - a pair was seen near Footprint Lake.

7 June - Several pair seen along Elson Lagoon.

9 June - Several pair seen So. of Uood + Ootjikh

10 June - 1 pr. seen Elson Lagoon

12 June - Several pr. seen - The beach ridge + on the west shore of Footprint Lake.

14 June - Several pair seen along the ridges near Ikroavik + Footprint Lakes.

22 June - During the last few days, the number of Phalaropus has definitely increased. As the melt-off waters have accumulated in large marshes, etc., the birds have arrived & spend most of their time feeding. Today several pairs were going through courtship activities, where



Holmes, R.  
1960

Phalaropus fulicarius

2.

22 June - Barrow (Ikroavik), Alaska

The female would chase the ♂ back and forth among and or from one pond to another.

23 June Ikroavik, Alaska

Several chases noted today. These involved several ♀♀ chasing a ♂. The ♀♀ were fighting among themselves, apparently, over the ♂. One such case involved 5 ♀♀; all fighting over 1 ♂. There would often be actual physical contact (wing flapping, etc) on the ground, or one ♀ would try to mount the ♂ (? - this is somewhat questionable since it happened so quickly). These encounters were often followed by a chase which would last for 10-30 yards - & then the brand would start again.

26 June Barrow, Alaska

Phalaropus are still abundant, but now the pairs seem to be mainly concerned with nesting. Chasing is rarely seen except between members of a pair. At this time, the ♂ seems to be more aggressive





Holmes R.  
1960

Phalaropus fulicarius

3

26 June Barrow, Alaska

towards his mate, and he will often become excited and will "push around" the ♀. Usually during these periods of excitement the ♂ will mount the ♀ + copulation ensues. Several nests have been located during the past several days. Most of these have been incomplete clutches (see P. telia). One nest was found today at the south end of the beach ridge. It contained 2 eggs, and both birds were present.

28 June Wainwright, Alaska

These birds were fairly common on the tundra near the deer line site. One nest was found, which contained 4 eggs. ♀♀ were still present in small numbers

30 June Ikroavik, Alaska

Last evening on the way south to the lake, flocks of ♀♀ were present along salt lagoon + Voth's creek. In this stretch there were about 150 birds. About 40 were on Footprint Lake. On the study plot, there are still pairs present, but lone ♂♂ are also seen. It seems that in these



Holmes, R.  
1960

Phalaropus fulicarius

4.

30 June Iktroavik, Alaska

pairs, the ♂♂ are now the aggressors and become very excited when other birds land nearby. Often they will flutter around + drive off these intruders (both ♂♂ + ♀♀).

1 July - 1 nest was located just south of the 2nd inlet on the plot. It was on the top of the ridge with center of a high polygon. The cup was lined with grass, and the surrounding polygon was also grass covered. The 4 eggs were green with dark (black) spots + small blotches.

8 July Barrow, Alaska

The majority of ♀♀ seen to have departed + small groups of these birds are now seen on the lakes + ponds. The ♂♂ are mostly on the nests, + are seen out feeding occasionally.

11 July Barrow, Alaska

The activity of these birds has slowed down. ♀♀ have disappeared now, + ♂♂ are now seen occasionally on small ponds. No young have been seen.



Holmes, R.  
1960

Phalaropus fulicarius

5.

14 July Barrow, Alaska

A large flock of 50-60 birds seen on the plot area near 20.3 - 20.4. Most of these were ♀♀, but a few ♂♂ were mixed in. This is the first big flock noted this year. The ♂♂ are still generally scattered over the tundra, but occasionally, several are seen together as a pair or chasing over the tundra. The nest on the north end (the south leg was being incubated, & the ♂ was excited at my presence. There was no pipping that could be seen. No phalaropus young have yet been reported.

17 July

Barrow - Ikroavik, Alaska

Most of the ♀♀ have left, and ♂♂ are now the only ones seen. In fact, there now appear to be flocks of ♂♂ on the ponds while were feeding & roosting or if they were through nesting. When flushed they fly off & leave the area. No broods have been seen yet by anyone (except possibly by Mohr). The nest by the pond N5/ The waning brood on the tundra.



Holmes, R.  
1966

Phalaropus fulicarius

6.

17 July Barrow - Ikroavik, Alaska  
had been destroyed. Many of them  
♂♂ are beginning to molt.

19 July Barrow, Alaska  
Several broods were located today  
near Voth's Area + Hendali ridge. Some  
indiv. were collected, + others were  
banded. One indiv seen just north  
of Voth's Area was nearly a week  
old + was not too far from being  
able to fly. The ♂♂ were with  
these broods, but they did not  
become especially excited when  
I was present.

21 July Ikroavik, Alaska  
The nest on the north part of the south  
island contained three eggs which  
were cold. The ♂ was not  
present. ♂♂ were seen occasionally  
during the day, but only 1 brood  
was found (+ banded).

25 July Barrow, Alaska  
Several ♂♂ + their broods were  
encountered north of Voth's Area. The  
young vary in size from 1 or 2 days  
old to almost flying. Some  
flocks of ♂♂ were seen in the  
larger ponds.





Holmes, R.  
1960

Phalaropus fulicarius

26 July Barrow = Ikroavik, Alaska

Large groups of ♂♂ (molting) were seen along Ikroavik. No juveniles were in the group, but a couple of broods / non-flying birds were seen.

29 July - Several molting ♂♂ were seen in Central marsh & slough. Also

2 Sperm young were noted.

30 July - Molting ♂♂ are still present & now flying juveniles are beginning to appear. I noted several of these today in Voth's Area, and also several partially grown chicks. The ♂♂ do not seem to attend these young birds too closely, since they are often found alone with no adults nearby.

3 August Barrow = So Barrow 3, Alaska

Very few were seen during our trip south (& north again). Only several occasional ♂♂ were noted. No juveniles seen.

6 August Barrow = Ikroavik, Alaska

Small groups of birds seen between the bog & the lake.

Along the shore of the lake (west side), many molting birds were present. There were feeding



Holmes, R.  
1960

Phalaropus fulicarius

8.

6 Aug Barrow = Iktroavik, Alaska  
along the water edge +  
back away from the lake - The  
meadow tracks + other areas  
close-by. Most of these were  
♂♂, I believe. Two 1  
Then flying juveniles were  
also seen. In Footprint Lake,  
there were very few phalaropus.  
Two non-flying chicks were  
seen. They were attended by  
the adult.

9 August Barrow, Alaska  
Very few have been noted during  
the past 3 days - between the  
boat + gas line ridge. There  
are usually several along  
freshwater lake.

16 Aug Barrow = Cape Lisburne, Alaska  
Large groups of phalaropus, presumably  
the species, were seen along  
the shore between Barrow & Cape Lisburne.  
At Lake Iperik, several of these  
were seen among the more common  
No. Phalaropus.

21 Aug Barrow, Alaska  
Most of the birds have flocked up +  
left with the exception of a few



Holmes, R.  
1960

Phalaropus fulicarius

9.

21 Aug Barrow, Alaska

♂♂ + juveniles still seen in the tundra pools + the lake beds. Flocks are still seen along the waterfront.

26 Aug Same ♂♂ + mostly juveniles are still seen on the ponds, feeding both in deep water + along the shore.

30 Aug About 3 individuals seen today in Central Marsh. Most of the ponds are now staying frozen during the day, making feeding difficult.

3 Sept Several seen near Ikroavik / was in Footprint Lake, trying to find among the frozen ponds.



Holmes, R.  
1961

Phalaropus fulicarius

- 3 June Barrow, Alaska  
2 pair seen on small ponds along the west shore of Elson Lagoon. Both birds were feeding actively with no apparent courtship occurring.
- 5 June - 1 pr. seen near Elson Lagoon - more elsewhere
- 7 June 2-3 pair seen so. of Britton's Area today.  
In one case 2 ♀♀ were fighting over a ♂ - much flying was going on, chasing back & forth.
- 8 June Many birds seen on the ponds near Sath & Britton's Areas.
- 9 June Numerous indiv. & pairs flying around footprints & near Ikroavik.
- 11 June - Abundant in Central Marsh - where most birds appear to be paired. Very little activity was seen on the ridge (before - F.A.P. photo). One ♀ collected had only 1 egg on.
- 17 June Two nests found today. One on the east slope of the BR - on F.A.P.'s plot - it was on a dry portion of the ~~ridge~~ ridge - & was surrounded by dead sedge & grass. It was quite well lined with grass & sedge - The nest was found next to Trepeline III B - on a slight polygon top - where it was well covered with grass. A flock of 20 ♀♀ was observed in Central Marsh. Also large number of pairs were still seen together on the tundra.





Holmes, R.  
1961

Phalaropus subcaries

20 June Barrow - Ikroavik, Alaska

See frequently - mostly paired - but  
occasional 2 ♀♀ + 1 ♂. Nesting generally  
seems to be well underway.

24 June Several small flocks of ♀♀ seen between The  
base + Oolupik Slough; very few were in  
central marsh.

27 June A few birds were seen in the plot - one or 2  
pr + about 3 males. Many  
flocks of ♀♀ were visible during the day at  
Ikroavik.

4 July The 1st nest found (near 10.0) in FAP's plot  
has been destroyed. A new one was  
found within 4 eggs - near (4.1).

7 July 1 seen in the plot (♂) at Ikroavik -  
no others seen today!!

9 July None seen in the B.R. - The nest found on 4 July  
could not be found. 1 ♂ seen near  
AAC's + one near Frost Lake. - No others  
seen anywhere - no ♀♀ in marsh, etc.

11 July 2 ♂♂ seen on pond No. of Oolupik's brood.

13 July 4-5 ♂♂ seen during today's travels  
to Oolupik Slough + Footprint Lake. No ♀♀  
seen. Nest in B.R. plot near 2.0 - gone  
definitely.

15 July A few single ♂♂ + small mixed groups of ♀♀  
seen in + around Oolupik's area + the  
insect plots.



Holmes, R.  
1961

Phalaropus fulicarius

- 16 July Barrow, Alaska  
No young have been seen this year! A  
few ♂♂ again seen - but none seemed  
very excited - all were feeding in  
Arctophila ponds.
- 19 July - few ♂♂ seen between Wohl. + Oolupit,  
but no young were encountered. These  
were seen individually - usually in  
ponds.
- 21 July 2 ♂♂ seen just N. of footpoint. -  
No young yet!
- 23 July - None seen between Camp - C. M., EIS  
Lagoon, Wohlshlog - Oolupit + return.  
None seen near insect plots
- 26 July None seen on the trip to Ikroavik. Still  
no young seen this year.
- 28 July - None seen along the coast to Cape Lisburne.
- 30 July Sev. small flocks of mostly juv. + a few  
♂♂ seen along the coast between  
the airport + the area 1 mi N. of Bir-  
nich.
- 2 Aug Several juv. seen No. 1 Uth's Area + in  
the gravel pits - No. 1 Britton's Area. Also  
along the coast among the ice flats,  
were large flocks of juv. + ♂♂.
- 4 Aug Sev. 100 Juvs. + Ad. ♂♂ seen along  
the shore between the base + Anouk.



Holmes, R.  
1961

Phalaropus fulicarius

Barrow, Alaska

7 Aug Barrow, Alaska

1 Immature seen between camp +  
Coburn Slough.

15 Aug 1 seen - Footprint

18 Aug 1 seen near Woblesby Slough.

22 Aug Numerous immatures + a few  
adult ♂♂ seen along the  
beach toward the point. Small  
flocks of 10-30 were present in  
the ponds -



Holmes, P.  
1962

Phalaropus fulicarius

8 June Barrow, Alaska

1<sup>st</sup> RP seen today - a flock / 5 flying  
south across Wohlsehlag Slough. Five  
more seen flying to the south over Voth Ave.  
A flock / nine " . . . . .  
late in the evening.

9 June Many birds seen today - nearly every sp  
parrot hood c pair & much chasing  
has been seen.

10 June May seen today - wherever there was open water.

17 June many see near Eison bluff. -

14 June Many birds present - some copulation seen.

17 June Nest with 1 egg found just W. of the crown  
floor pond - 50 yds. N. of W. black log.

20 June 4 nests - found on the plot at Ikroavik - 2 with 4 eggs, 1 with 2 + 1 with 1 egg. In all cases the ♂ was incubating. Two more found near the swampy lake in the evening, 1 with 4 + one with 3 eggs - again ♂'s were on the nest & were anxious to get back & sitting off they were flushed.

21 June One more nest was found - NE of the Wampanoag corner  
4 eggs. The nest on the plot with 2 eggs -  
hatched 3 today; There was still only an  
egg in the other - incomplete clutch.

23 June Nest with 1 egg - new Elisa Lopez - Curlew Sdp  
area. - both sexes present

24 June - All nests - just checked - only 1 had ♂ med. at cell had 4 eggs - except the one which still has .





Holmes, R.  
1962

Phalaropus fulicarius

2.

24 June Barrow, Alaska

only one egg. One ♂♂ + a few ♀♀ were noted on the plot. One copulation was noted (near the SW end of the plot). - Several ♀♀ seen chasing each other and ♂♂.

26 June - Flock of about 30 ♀♀ seen - gravel pond - near Britton's Area.

27 June Nest on plot - still with 1 egg - warm. Apparently ♂ is still incubating. Three nests found north of Wannigan inlet to Ikroavik - 2 with 4 eggs; 1 with 3. Still some ♀♀ chasing ♂♂ on the plot - no flocks noted today.

2 July Nests in Ikroavik plot all intact with ♂♂ incubating - No nest still with 1 egg. Two more nests found - containing 2 eggs. No ♀♀ were seen with ♂♂ whose nests I have found - but 3-4 pairs were still noted. Flock of about 40 ♀♀ on Wannigan inlet. Mulla reported 100's of ♀♀ at the south end of the lake.

4 July No birds in Central marsh.

5 July Large flocks of ♀♀ along Ikroavik Plot & inlet. Still 2 ♀♀ seen with ♂♂ on the plot & the nest where I contained 1 egg in the gravel - now contained 4. The ♂ was on egg - is still incubating. Another nest is located - on the plot - with 4 eggs.



Holmes, R  
1962

Phalaropus fulicarius

5.

6 July

Barrow, Alaska

♂ in nuti drum area - did a partial distraction display. When it was flushed it flew normally for 20' landed - lowered head, tail which was partially fanned - body feathers were ruffled so that they almost stood straight up & wings were out to the side. The bird feathered from side to side - even very almost touching the ground as it leaned to that side. After about 30 seconds - it then almost staggering, moved. The bird straightened up & stood there in the usual clumsy phalaropus manner.

9 July

Small numbers crossing the plot - but no large flocks seen there. At south end of Ikroavik Lake - 1 flock of ~150 ♀♀ + a number of at least 500 in an Arctophila - filled pond. The rest in the plot & then entered an on the census sheet.

12 July

Only bird in plot today - was there at nest - most of which were empty - it had hatched - see census sheet. Whims - only occasional ♂♂ seen in the Vot Area during the afternoon.

14 July

Several ♂♂ - no ♀♀

17 July

Several ♂♂ in Vot Area - no ♀♀ - no young seen today.



Holmes, B  
1962

Phalaropus lucicarpus

4.

22 July Barrow, Alaska

large flock - 60-80 - seen flying along  
the NW shore of Ikroavik - probably  
were ♂♂ - but may have included  
moulting ♀♀ (?). 30-40 were also  
present at the point at the south end  
of Footprint Lake.

24 July Groups of 2-4 ♂♂ in the ponds + marshy area  
No. 1 Voth Area.

25 July Large flock of ♀♀ + ♂♂ + a few immatures  
along E side of lake - near Brant Pt (400+).

30 July 1 ♂ on Fresh Lake - none other seen.

1 Aug 3 heavily moulting birds (♂♂?) - on  
gravel ponds near Brant's Area. No other  
seen today, but large flocks of adults  
were seen near the point by Hines.

3 Aug 30-40 juveniles on Fresh Lake - as well  
as a ponds south of Woblesblog.

5 Aug Many juvenile birds seen on the ponds +  
in the marshy areas - east + northeast of the  
beach ridge. 200+ on Fresh Lake.

6 Aug 150+ on Fresh Lake + vicinity + many  
ponds near Gasline Ridge. Took 2 to 30  
juveniles - individuals were  
frequently flushed in pond edge - among  
tall sedge + grasses. 2 moulting ♂♂  
♂♂ were also noted - others  
all were juv.



Holmes, R  
1962

Phalaropus fulvus

5.

17 Aug Barrow, Alaska

Small flock of juveniles on gravel ponds  
near Britton's Area & also scattered  
across Voth's Area & marsh.

13 Aug Only a few noted on the tundra pools -  
most seem to be along the shore & coastal  
lagoons.

14 Aug 100+ on gravel ponds near Britton's Area &  
30+ along Fresh Lake.

18 Aug Large numbers of immatures seen along Elson  
Lagoon near Brant Pt - only a few were  
noted on the tundra pools.

20 Aug 30+ on Britton's Gravel Ponds.

21 Aug Very few are now on the tundra ponds -  
most seem to be congregated along a  
shore.

22 Aug 3 on Britton's Gravel Ponds

23 Aug 100+ " " " " + several  
near Ikroavik. Also flocks of 8-15  
flying low along the ocean shore.

24 Aug 3-400 ± on ponds toward the Point





Holmes, R  
1963

Phalaropus fulicarius

1 June Barrow, Alaska

4 pair, seen in small pond in Britton's Area.

5 June 3 on ponds near Eison x Wobleschley

6 June Succeeded pair + 1 three-some (2 ♀♀, 1 ♂)

seen along village slough bluff

7 June Numerous 2's - pairs seen near Wobleschley & Eison.

8 June Numerous pairs & three-somes seen along village slough - feeding in shallow ponds & in upland tundra. One flock of 15 flying east - over Voth Area.

15 June Two - three pair - Throated Loons - not common.

16 June Nest with 2 eggs. 10' E of Trypteris IWA O.O.

17 June Three - four pair on plot at Throated - but generally scarce.

20 June Nest with 4 eggs - seen 1 Voth Slough - 30' of Voth Area.

21 June Nest with 4 eggs - plot at Throated.

25 June Another " " " " - also 1 with 4 eggs 100 yds W. of S. Footbridge

26 June " " " " - on mud flat - 200 yds

W of Brant pt. Two flocks of ♀♀ - 1 of 6,

♂ 1 ♂ on pond near Brant Pt.

29 June - Distraction display by ♂ from nest near 9.0 - wings were extended out to the side - tail

was depressed & partially fanned. Scap & back feathers were not raised or ruffled. The bird shuffled off through a trough - feathers under



RTH  
1963

Phalaropus fulicarius

2.

29 June Barrow, Alaska

h side + fluttering his wings - given -  
squeaking sound

2 July Nest found 50 yds off T. plane 5 - 10.0 -  
with 4 egg - ♂ performed no distraction

5 July Nest with 4 egg - just S. of Britten's Area.

7 July Nest with 4 egg - 100' W. / 2.4 a Ikroavik  
plot. - Nest near 9.0 - had 2 dead  
young in it - probably victims of a  
snowfall a few days ago. A few flocks  
of ♀♀ along Ikroavik + stream entering  
the lake

9 July Found 16 ♀ in census plot - plus ♂♂ incubating  
at nest near 3.4 + 18.1. Scattered ♂♂ + ♀♀  
were in the ponds.

12 July ♂ + 4 chicks seen in marshy swale - 200  
yds south of north salt lagoon.

16 July Nest in Britten's Area still being incubated - nest  
near Voth's slough gone. - no sign of ♂ or chicks.  
The flock of ♀♀ have not been very noticeable  
this year - none were seen today.

17 July Much confusion today - census plot (Ikroavik)  
- many groups of ♀♀ with ♂♂ occasionally  
mixed in - flying around - landing in  
grassy - upland areas. Feeding for a while  
+ then moving on. One flock of about  
150 - birds moved across the tundra  
just south of the plot.



Holmes, R.  
1963

Phalaropus fulicarius

3

20 July Barrow, Alaska

Small flocks of ♀♀ - not observed ♂ -  
Throat patch uneven patch - group / 3-15  
were present - mostly in the upland  
tundra / in wet tundra - not on ponds.

One carcass - reduced to feathers & bone  
by a predator - within the last week -  
found 20 yds south of gasoline R.

23 July large flock <sup>1-200</sup> both ♂♂ & ♀♀ (50:50) along  
Ikroavik lake

4 Aug 1 Downy chick <sup>collected</sup> in wet polygon area north  
of Lake Ave.

5 Aug Numerous immatures seen on ponds & marsh  
between beach ridge & fertile plots.

6 Aug Flock of 16 in footprint lake & small  
groups of 2-4 on ponds - Ikroavik plot

7 Aug 2-300 on fresh lake at 0400 - by 0830 -  
none were there - in late afternoon -  
1-150 were present

8 Aug Same as yesterday - large # in east  
marsh - gone by 1200. E-M the  
one - the more or they move out to the coast  
& back into the lagoon at certain times.

13 Aug large # (10+) / immatures - fresh lake &  
Scattered individuals in tundra ponds.

15 Aug Common on fresh lake & ponds to the south -  
of Wobbschly Slough - 1000 / immatures -  
no adults seen.



Holmes  
1963

Phalaropus fulicarius

23 Aug Barrow, Alaska

3-400 immatures in fresh lake in the afternoon.  
aft. west wind. Pool dried down.





Holmes, R. T.  
1964

Phalaropus fulicarius

5 June Barrow Alaska

2 flying near Voth house

6 June Saw, mostly pairs, noted so. / Br. Hall Area

10 June ♂ near Halls, pr near Voth area.

15 June Numbers increasing - but still not very common  
1 copulation noted today.

20 June Not very common - no nests found yet -  
scattered birds only.

25 June Scattered ♂♂ + immatures 4+ ♂♂ light  
a few ♀ seen around - but no nests  
no nests have been found.

28 June Nest with 4 eggs on gravel ridge & deep  
grass - collected for weights. (12-14 day embryos).

29 June Flock / 1847 on North edge / C.M.



Holmes, R.  
1959

*Stercorarius pomarinus*

7 June Barrow, Alaska.

11 birds seen near the shed at 1400-1430. They were all flying eastward.

8 June Barrow Village, Alaska.

1 bird in dark phase seen flying in from the ocean and back over the tundra. It flew high and direct course.

9 June Barrow, Alaska.

9 birds seen flying inland from the sea near the Voth area. 2 others noted flying inland just W. of the Base.

12 June Barrow, Alaska

At least 5 of these birds were seen today west of the Voth's Slough Area. One pair (a dark phase + a light phase) was seen with another pair of light phase birds. The first pair were quickly chased out of area by the light-pair, but they all were seen in fairly close association about an hour later. The light phase-pair were noted courting. As they flew back and forth over the tundra, the male seemed to be in pursuit of the ♀. He would



Holmes, R.  
1959

Stercorarius pomarinus

12 June Barrow, Alaska

fly with a shallow wing beat where the wings were never brought above the horizontal. This was used as the bird was coming into land. In other instances during a flight the wings may be held over the head and beat so that they never come down to the horizontal (F.A.R.) This may be related in some way to the ground behavior of raising their wings. Once on the ground, the ♂ would raise his wings. Then both birds of the pair attained a strutting position and stood side by side or face to face in this position. Then they took flight in pursuit of the previously mentioned pair of jaegers. These birds were seen during the afternoon with at least one more bird at one time. The ♂ of the mating pair was seen sitting out on the snow. As another jaeger approached, the sitting bird raised and lowered its wings several times, apparently this was a weak sign of aggressiveness to indicate that this was his territory.



Holmes, R.  
1955

*Stercorarius pomarinus*

3

12 June Barrow, Alaska.

In the above-mentioned description of the mating display, the male was also seen to cock its tail at the same time the wings were raised. It was also cocked during the strutting performance.

13 June Barrow, Alaska

One seen in and around the drum area. It was noted sitting on the tundra in a small patch of dried grass. Upon being approached too closely it stood up and several seconds later took flight. It then landed about 50 yards away and remained standing in that location for about 10 minutes. It then flew off and settled about 200 yards away. It remained attentive with neck held erect and turning from side to side - both while ~~was~~ standing and sitting. It was not seen to feed while it was observed.

14 June Barrow, Alaska

0900-1030. Drum area. Three birds seen flying, within 10 yards of each other, back and forth over





Holmes, R.  
1959

*Stercorarius pomarinus*

4.

14 June Barrow, Alaska

The drum area. There seemed to be no pairing in this group, for conflict was not noted. One bird settled on the ground for a few seconds, then flew off with the other two towards the N.E. At the same time, 2 other birds were seen west of the drum area near the dump. They were both sitting about 20 yards apart. One flew up and flew about 100 yards and settled down again. The other did not follow.

1300-1600. Many indiv seen over the tundra. Some were in groups of 2; others three, and still others by themselves. At least three and possibly four pairs seemed to have established some territoriality, as they were noted to drive other birds out of their area. An attempted copulation was attempted once. The ♀ was spread out in the snow, and the ♂ was seen to "walk" up on to her back. Contact apparently was not made, but the behavior emphasized the "intentions".



Holmes, R.  
1959

*Stercorarius pomarinus*

5

14 June Barrow, Alaska

of the pair. Sometimes when three birds were flying together, there would be no conflict. Then all of a sudden, two of the birds would turn and chase the third until finally they stopped the attack and the two pursuers took off by themselves. One bird was seen with a lemming in its mouth, and it was immediately joined by two other birds. After a chase for 20 yards or so, the bird with his prey and one of the others turned on the third bird and drove it off. At this time the two remaining birds landed on a hill and the rest was not observed. Several seconds later, however, both birds were seen standing on the snow about 2 feet apart. Apparently the lemming had been consumed.

2000. About 15 birds seen in the drum area and surrounding tundra. Ten were seen at one time sitting on the ground. The others were flying here and there. No aggressiveness was seen, except when one individual landed



Holmes, R.  
1959

*Stercorarius pomarinus*

6.

14 June Barrow, Alaska

near (4 feet away) a sitting bird.  
The intruder was quickly chased  
on the ground for about 10 feet  
before it took off and flew to the  
eastward.

15 June Barrow, Alaska

Ten birds seen sitting in a down  
area and adjoining tundra. There seemed to  
be very little activity as most of the birds  
were standing or sitting on the ground. A  
few were noted flying. Three Glaucous Gulls  
were flying around these jaegers and crows.  
One would level to close and the  
jaeger would fly off to another  
mound. During the afternoon, 8 birds  
were seen sitting on the tundra,  
and an occasional one would get  
up fly around and then settle  
down. One of these birds was seen  
to catch a lemming and fly with it  
in its beak to a small tussock.  
Immediately three other jaegers  
converged on this bird. After  
about a minute of struggle  
the birds began to separate and the  
three finally flew off. The lemming  
was not seen again, so probably it



Holmes, R  
1959

Stercorarius pomarinus

7

15 June

Barrow, Alaska

had been swallowed during the hour.  
Birds were seen all afternoon in the drum  
area and so. 1 it. Aggressive behavior  
was noted twice by two different  
individuals in different places. Both  
times it consisted of chasing another  
jaeger away from where the aggressor had  
been sitting. These were chased for  
about 20 yards and then the bird  
came back to his original position.

16 June

Barrow, Alaska

at least 3 and probably 4 pairs  
seem to be settled in the area between  
the end of the Voth Area & gasoline room  
west the west to the room of tripod-like  
pole. There were noted defending  
their territories several times. One  
was also seen carrying a lemming  
in its bill.

17 June

Barrow, Alaska

One pair seems to be settled in the  
drum area and possibly one by  
the dumps. The one in the drum area was  
seen to chase a Short-eared Owl  
out of the area. The owl circled back  
once, but was quickly chased out  
again. About 5 or 6 birds were seen <sup>in the</sup> vicinity.





Holmes, R.  
1959

Stercorarius pomarinus

8.

18 June Barrow, Alaska

4 seen in the drum area. No territorial defense was seen during the morning.

19 June Barrow, Alaska

One bird seen in the drum area in the morning and in the afternoon. No activity noted. Several were seen wandering over the ridge during the day. These were all singles so that no conflict was seen.

20 June Barrow, Alaska

Several individuals seen flying over the beach ridge. No aggressive action was noted. Jays were not seen in the drum area.

21 June Barrow, Alaska

one individual seen flying South over the beach ridge during the morning. None were seen in the drum area.

24 June Barrow, Alaska

One seen flying over the ridge at 1700.

25 June Barrow, Alaska

One seen near AFCS buildings during the morning, and another was seen just E of the beach ridge.

26 June Barrow, Alaska

One seen near the beach ridge as it flew over Central Marsh. (over)

28 June. Barrow, Alaska

One individual seen just So. of gasoline ridge. It was flying at first and then it sat on a small polygon. It then began to dig by pulling up parts of the tundra with its bill. It would pull up a hunk of grass, throw it aside and then <sup>it would</sup> look up and look around before repeating its digging."

30 June. Barrow, Alaska

Two seen along gas line ridge flying westerly.

2 July. Barrow, Alaska

Two seen near the gasoline ridge and one over the beach ridge.

5 July. Barrow, Alaska

Three seen flying and hunting over the beach ridge near the census area.

6 July. Barrow, Alaska

Several seen in central marsh during the morning. One seen harassing a female ptarmigan when it was flushed from a nest.

Holmes, R.  
1959

*Stercorarius pomarinus*

10.

6 July Barrow, Alaska

In this case, The duck was fluttering over the ground in an attempt to fly, and the jaeger was attracted because of an "injured" bird. After she finally gained her flight, The jaeger flew off and resumed her hunting. (He had simply hovered a foot above her head while she was trying to get off the ground).

7 July Barrow, Alaska

Birds of this species were seen here and then over the tundra between APL, AACS, Beek Ridge, Woblesley Slough and Elm Lagoon. Most were hunting, some of them were in pairs. Several nests of longspurs or some shorebirds have been destroyed on the ridge, and it seems that the jaegers may be the cause of it.

A snow owl has been in the area for some time, also have a pair of it. The majority seen today were along the beach ridge.



Holmes, R.  
1955

*Stercorarius pomarinus*

11.

8 July Barrow, Alaska

Several seen on Voth's Area.  
Most were feeding, but some  
were sitting on mounds.  
Apparently, none are nesting.

10 July Barrow, Alaska

Three seen hunting together  
just N of Voth's Area. They  
were giving loud harsh, gruel-like  
calls as they flew over the tundra.

14 July Barrow, Alaska

Nest 1  
2 eggs

Two nests were discovered today  
S. of Voth's Area. One was 30 yards  
west of gasoline road about a  
mile S of Voth's area. It was on  
a slight mound and consisted of  
the eggs laying in a cavity lined with  
a few grasses. The eggs were 2 in number  
and were olive-green with small  
black spots. The second nest  
was about 100 yards SE of the  
S. end of Footprint Lake, also on a  
small mound. The number of  
eggs and nest conditions were  
similar to the first nest.

Nest 2  
2 eggs

16 July Barrow, Alaska

Three were seen near the census plot  
on the beach ridge. Several others



Holmes, R.  
1959

*Stercorarius pomarinus*

12.

16 July Barrow, Alaska

were seen flying near the Wurtschlag 5  
Slough and Elson lagoon.

17 July Barrow, Alaska

Two were seen near A.H.C. 5.

18 July Barrow, Alaska

The nests were checked during the afternoon.

Nest #1 (No. 1 Footprint lake) still had  
two eggs. The adults were not too  
excited upon our approach and one  
flew about giving a juk-like call.  
The nest here is on a polygon which is covered  
with moss and lichens with an interspersing  
of grass and sedge. There is actually very  
little vegetation present around the depression  
where the eggs are laid. Nest #2, SE  
of Footprint lake, was destroyed. The two  
egg shells were present with holes in  
them. Apparently an owl or other predator  
had destroyed the nest. The nest also  
was on a slight mound covered  
with moss and a little grass + sedge.  
The adults were not seen for sure;  
however, several jaegers were seen  
hunting in the same vicinity. A  
new nest was discovered on the  
west side of Footprint lake. At 1630  
it contained 1 gray-downed young

Nest 3





Holmes, R  
1957

*Stercorarius pomarinus*

13.

18 July Barrow, Alaska

and 1 pipping egg. This nest had the same general location as the other two. That is atop a mound which in this case was very slight. Also there was more grass and was in the middle of an open field about 100 yards wide and 4-500 yards long. It was located about 50 yards from some polygons which were much higher than the nest mound.

19 July Barrow, Alaska.

At 1200, the eggs in nest #7 were just beginning to crack. Both young were present in #3 and were quite active. The Adults in #1 are very "scary". They will leave the nest when a weasel is approaching far down the road and will not return for considerably long time afterwards. At least 15 to 20 other jaegers were seen between 1/2th Ave and Ikroavik. They could be seen almost anywhere.

20 July Barrow, Alaska.

Nest #1 at 0900 was still pipping and was covered in with 1' x 30' Sereing. Nest #3 was checked and the young could not be found. The



Holmes, R.  
1957

*Stercorarius pomarinus*

14.

20 July Barrow, Alaska

adults were there showing signs of disturbance as I approached. However, after an hours search, the chicks could not be found. When Nest #1 was disturbed by checking the nest area putting up the fence, the adults became quite excited and would fly around with a continual swoop at me. Also at this time, 7 other jaegers gathered around harassing the nesting pair, so the had all these birds to chase off before I was attacked again.

20 July Barrow, Alaska

Several were seen near Nuuk along the coast.

22 July Barrow, Alaska

Nest #1 was still pipping. The adult birds were very excited. #3 was checked and no chicks were found. Two jaegers were present, but did not become excited upon my approach.

23 July Barrow, Alaska

Nest #1 contained one downy young at 1300. Nest #3 was still deserted, but one young was found about 200 yards away among some high rocks. It was banded and



Holmes, R.  
1959

*Stercorarius Pomarinus*

15.

23 July Barrow, Alaska

released in the same area. The adult did not become too excited when I found this young bird, but it was in good shape, as they had apparently been feeding it. A slight distraction display has been noted with the paired nest #3 and not in #1. The female will land on the ground 30-40 yards away, then turn and waddle away from the intruder, apparently wanting him to follow. Occasionally the wings are drooped slightly and the head may be held out horizontally. These jaegers are still rather common and at any one time, at least 5 or 6 can be seen flying over the tundra.

27 July Barrow, Alaska

The nest #1 was checked at 1300 and the 1 remaining young was still active and the adults were still defending.

29 July Barrow, Alaska

Fewer jaegers are now seen over the tundra, and none seem to be seen over the ocean. During four hours spent in both areas only 2 Pomarines



Holmes, R.  
1959

*Stercorarius pomarinus*

29 July Barrow, Alaska

were seen during the whole time.

31 July Barrow, Alaska

Three birds were seen near Wablschlogi Slough in the afternoon. None were seen in Voth's Area.

1 August Barrow, Alaska

The nest was checked, and it still contains the young bird. The adults are as active as before.

4 August Barrow, Alaska

The young bird was still in the enclosure and was attended by the adults.

5 August Barrow, Alaska

Three seen near Muwak, harassing the Sabine Gull & Kittiwakes.

7 August Barrow, Alaska

Two seen near Footprint Lake chasing a group of Pectoral Sandpipers. No contact was made. None were seen on the trip to Wablschlogi & Deep Slough. The nest was checked and the young bird was still there, and the adults were active.

18 August Barrow, Alaska

Two were seen just west of AACs, flying over the tundra.





Holmes, R.  
1959

*Stercorarius pomarinus*

17.

19 August Barrow, Alaska

The nest was checked, and the adults were still present and attending the young. The chick has begun to feather out and will probably leave the enclosure within a week or so.

21 August Barrow, Alaska

The young jaeger had left the nest by 1300 today. The adults were still present & attacked me as I neared the nest. They soon flew off in a westerly direction & seemed to stay about 300 yards away. - After searching the area, the young was not found, but it was probably somewhere close by.

25 August Barrow, Alaska

6 seen in Central Marsh, flying low over the tundra towards the nest.

26 August Barrow, Alaska

One seen in Central Marsh. None seen in the vicinity of the nest, w./ Lath's Area.

28 August Barrow, Alaska

One seen near Footprint Lake. None



Holmes, R.  
1959

*Stercorarius pomarinus*

18.

28 August Barrow, Alaska

were seen in the vicinity of the  
nest (#1). The ferry was  
removed and Maki collected  
the pellets.

5 Sept. Barrow, Alaska

Two seen between Footprint  
Lake and Voth's Area.



Holmes, R.  
1960

Stercorarius pomarinus

1.

28 May Barrow, Alaska

Numerous individuals and groups of 2 and 3 seen in the vicinity of the head ridge during the afternoon. No direct evidence of area occupancy was noted. During the evening, however, in the Wohlseh Slough & Southern head ridge area, chasing was noted & also the wing ruffling threat given from the ground.

A glimpse was obtained of a pair courting, but the birds flew off before any details could be recorded.

29 May Barrow, Alaska.

Numerous birds present over the tundra. Many are showing signs of occupancy as birds well spread their wings & "dial" at intruders. Occasionally, aerial chases were noted. 1 out of 10 birds (roughly) appear to be in the dark phase.

30 May Barrow, Alaska

Many settled pairs were noted near VOR's Area and Village Slough. Birds could be seen sitting on the snow or low mounds. Occasionally one would rise and



Holmes, R.  
1960

*Stercorarius pomarinus*

2

30 May Barrow, Alaska

circle around when a wandering jaeger came into an area. Twice a wing raising display was performed by both birds on the ground. In the case, the wings are raised high over head & the head is held back & extended forward. Usually a rather loud cry accompanied the display.

31 May Barrow, Alaska

Numbers seen to have increased during the day. Maher estimates a 3-4X increase in the central marsh region. Birds seen to be evenly spaced out & over wide expanses of snow. Birds have a pair or two of jaegers sitting on it & defending. This is against others.

1 June Barrow, Alaska

Scattered jaegers were present between ARL and Ikroavik. No large numbers were seen. A group of 21 were seen sitting on the lake. Along the west side, pairs seemed to be established every 1/2 mile or so. No large concentrations were observed.

2 June The same held true today for the jaeger populations in the Ikroavik





Holmes, R.  
1960

*Stercorarius pomarinus*

3.

2 June Barrow, Alaska

area. In evening with Area +  
Village locations were censused by  
Maker.

3 June - 19 birds were seen sitting on tundra  
on Elson Lagoon.

5 June - Barrow → Inarn River, Alaska

Numerous birds seen all the way to the  
Inarn. See Maker's Notes for  
details on numbers. One nest was  
located just 75 feet from the river.  
It contained 1 egg.

6 June - Barrow, Alaska

A flock of 35 was seen at Footprint Lake,  
plus the pair of settled birds. A  
nest was found southwest of Footprint  
& No. 1 Ikroavik. There was 1 egg. This  
nest was located on a small mound  
(of about 3 feet in diameter) and was  
completely surrounded by snow.

7 June Barrow, Alaska

A territorial dispute involving 6 birds  
(3 pair) was observed in central marsh. The  
encounter involved several physical clashes  
which sent the birds to the ground. There was  
much squawking + yelling and finally  
the intruding pair left the area +  
the 2 residents returned to their territory.



Holmes, R.  
1960

Stercorarius pomarinus

4

7 June Barrow, Alaska

A nest was located on the south shore of Wohl. Slough about 400 yards in from Elson Lagoon. It contained 1 egg. Another was located in a deep (natural) depression in the bed of lichen on the west margin of the beach ridge between the central marsh plot & the head ridge plot. This nest contained two eggs.

8 June Barrow, Alaska

No new nests located on the west side of the gas line, but several ♀♀ were "broody". A flock of 56 was present on Footprint Lake in the late afternoon.

9 June Barrow, Alaska

A pair seen courting east of the beach ridge. When first observed, the two birds were facing each other head on. The ♀ was hunched over low and was moving her head & neck from one side to the other. The ♂ had his head lowered, but was not hunched over. The ♂ then picked up a humming & the tug-of-war followed. Both birds held their wings high, while at the same time holding in to the humming with their bills. The tugging lasted for



Holmes, R.  
1960

Stercorarius

Pomarinus

5

9 June Barrow, Alaska

about 1 min, after which the humming was dropped. The ♂ then began to jump into the air with both wings raised. He appeared to bounce or spring up to a height of 3-4 ft. There were 4 of these actions before he took flight to defend the territory. All this time, the ♀ was standing nearby in a slightly hunched position. Numerous nests are now being found; these can be seen on the map.

13 June - Many are now present, and most are nesting. There are no larger flocks of birds seen on the lakes; however, occasionally single birds are seen. Territories seem to be present on the Star 1 footprint lake, but nests have not been found.

23 June Ikravik (Barrow), Alaska

The nesting density here at the lake appears to be similar to the area around Barrow. The birds can be seen all around the warden, & several nests can be seen from that location. These will be plotted after they have all been found. One



Holmes, R.  
1960

Stercorarius pomarinus

6.

23 June Ikroavik, Alaska

pair which is located directly south of the waniga has a nest near the NW corner of the plot. The aggressive nature of the pair is especially noticeable, whenever I approach both birds become highly excited & begin dive bombing immediately. The ♂ usually drops his feet just before he passes by, so that these hit against my head or hands. The ♀ is not quite this aggressive, but she will come quite close in her dives. It has gotten to the point now that whenever we come out of the waniga, the bird which is not at the nest (& sometimes both birds) will fly over & start attacking - even though we are 100 yards from the nest.

28 June Wainwright, Alaska

Birds were seen throughout the trip from Barrow to Wainwright. At the site in an area of a little more than  $\frac{1}{2}$  a square mile (actually about  $\frac{2}{3}$  of a sq. mi.) there were approximately 4-5 pairs. Several territorial encounters were





Holmes, R.  
1960

Stercorarius pomarinus

7.

28 June Wainwright, Alaska

naked but there were infrequent. In walking about on the tundra, we were never attacked by jaegers, and it was my impression that jaegers were generally scarce (at least compared to Barrow).

29 June Barrow, Alaska

Rex Pieper + Don Miller reported seeing a jaeger take a Phalarope egg. Apparently they saw the bird on the nest, and after scaring it off, they found that the egg had been punctured but the bird had been scared away before he had eaten the contents. Jaegers were seen attacking the owls at Nest 3 + 2 this morning. On several occasions, it seemed that actual physical contact was made.

1 July Iktroavik, Alaska

The nest in front of the wanigan at the NW corner of the plat has one egg which is pipping (at 1600). Carson reports that he saw a chick near the south end of Iktroavik this afternoon that must be at least 2 or 3 days old (still in downy plumage, but out wandering around).



Holmes, R.  
1960

Stercorarius pomarinus

8.

2 July Iktroavik, Alaska

The nest in front of the wanigan contained 1 young this morning, and the second egg is beginning to pip. The nest near the slough (N. of the wanigan) had 1 young present near the nest site. The second young could not be found.

3 July - a pair of jaegers where both members of the pair are melanistic was found near the NE shore of Iktroavik.

7 July Barrow, Alaska

Many of the jaeger nests are now hatched & the young are extremely hard to find.

9 July Iktroavik, Alaska

As a pair of Steller's Eiders landed on a pond behind the wanigan, a jaeger began to swoop down at them, making them dive. This went on for a minute - when the jaeger would fly at & attack(?) the water for some time they surfed. Finally the jaeger sat on the water & would swim over to the pair when they came up. After another minute of this, the jaeger left the pond, leaving



Holmes, R.  
1960

Stercorarius pomarinus

9.

9 July Iktroavik, Alaska

The jaeger to himself. This is the first time that I have seen jaegers attacking other birds (esp. adult ducks). It is most likely that the jaegers were nearby & the birds would have reacted that way to any animate object which entered that area.

17 July Barrow, Alaska

The young are now starting to show up on the tundra, and several were caught & banded today. Many of the adults are still aggressive.

21 July Barrow  $\leftrightarrow$  Iktroavik, Alaska

During the last few days, the chicks have become bolder & can often be seen flying running across the tundra & just staring motionless by a polygon. The adults are still aggressive.

25 July Barrow, Alaska

One chick found near Britten's Area which was nearly ready to fly. The wings were nearly fully developed, and he was able to fly for 1 or 2 strokes. The bird was caught & banded.



Holmes, R.  
1960

Stercorarius Pomarinus

10.

26 July Barrow = Ikroavik, Alaska

Pairs were noted all along the way - between Barrow and the South end of Com Lake & the Ivanigan. Several chicks were seen. Numerous dead jaegers (shot) were seen near the gas well, on the west & east shores of Ikroavik, & north of Footprint Lake.

28 July Barrow, Alaska

The adults are still quite common; however, adult encounter are now seen infrequently. The young are also rather difficult to see, and our banding operations has been quite slow. Most, probably early immatures are still seen in the tundra - but most of them are old and well up.

30 July - The adults are still present and are defending territories. The young are still hard to find.

3 August Barrow = So. Barrow, Alaska

During our 9 hour trip, only 5 chicks were seen (2, 1, 2) on the ground. Adults were present all along, and several territorial





Holmes, R.  
1966

Stercorarius pomarinus


11.

3 August Barrow: Se. Barrow 3, Alaska

encounters were noted. The young are evidently present, but just cannot be seen. About 4 or 5 flying juveniles were noted during the trip - the first for the season. A dead adult was noted at one owl nest, and a dead chick was at another (see Sn Owl notes).

6 August Barrow - Ikroavik, Alaska

Numerous flying juveniles were seen between Barrow and the lake. At the plot, the pair at the NW corner had 1 flying young that was seen. This bird was a melanistic individual - while both adults are normal. On the east side of the plot near the lake shore, there was a normal <sup>see below</sup> pair with a flying juvenile which had white bars extending clear across the upper surface of the wing.

The strip of white was  about 2 inches wide and was very noticeable + out-standing. (The ♂-adult had a little more white than normal at the wrist joint - the ♀ was melanistic).



Holmes, R.  
1966

Stercorarius pomarinus

12.

9 Aug. Barrow, Alaska

Two flying juveniles are now seen along the west edge of fresh-water lake. Others are seen frequently on the tundra.

14 Aug - A group of 4 Adults and 4 Immatures were seen flying together over the beach ridge. There appeared to be no territorial conflict between the birds, but they were only seen together for 1 or 2 minutes.

21 Aug Numerous Adults + juveniles are still seen on the tundra. Many of the pairs seemed to have raised 2 chicks.

25 Aug - Many of the pairs are still on territory along with their chicks. It seems, however, that some of the chicks are starting to leave - as groups of 3 or 4 are now seen.

29 Aug Two territorial disputes were seen today in Central Marsh. In both cases, the adults announced (usually on the wing), and a chase ensued. The chases were of short duration.



Holmes, R.  
1960

*Stercorarius pomarinus*

13.

30 Aug Barrow, Alaska

On 28 Aug, the remains of a partially-eaten jaeger chick were found near trapline XIII in the fertilized plots. About 40 feet away was the body of a juvenile Snowy Owl (band #60). It appeared that the young owl had killed the chick & had then been attacked by the adult jaeger which had injured it badly. It was then able to move away (it gave up a pellet containing a jaeger's faeces) before it died. On the same day, another chick was discovered dead (only feathers remaining) near trapline XIV. Both of these juvenile jaegers had been dead at least several weeks & both were unable to fly at the time of their death (i.e. - flight feathers not developed enough for flying). Today, a third incident was found about 200 yards NE of the trapline at the edge of the polygons. Here another batch of juv. jaeger feathers were



Holmes, R.  
1960

Stercorarius pomarinus

14.

30 Aug Barrow, Alaska

Found + also another dead juvenile (banded) owl. It appears to be another repeat of the same incident.

No territorial encounters were seen today, and in general, there seem to be fewer jaegers on the tundra. It is still possible to hear the juvenile birds' cries nearly everywhere.

Archie wt at 1300 = 807.5g.

2 Sept - Jaeger seemed to be rather scarce today. The two chicks along the logjam<sup>(fresh)</sup> were still there and at least 1 adult was also there. Hottspur's parents + sibling were still there. During the travel around the marsh, several adults + only 1 or 2 chicks were noted. The day was cold + it was snowing, so this may have quieted the birds. No territorial encounter was seen, however one incident was noted. An adult jaeger was flying west. A few seconds after I saw the bird, another adult





Holmes, R.  
1960

Stercorarius pomarinus

15.

2 Sept. Barrow, Alaska

took off from the ground and followed behind the 1st bird. After a few more seconds, this second bird settled down; the high flyers were kept on going. This was apparently a territorial action, but a very weak one.

3 Sept. The pr. at the wamiga were gone today, but one bird near the inlet to Akrovik was seen to follow & give the wing announce to a migrant juvenile. Another pair were noted feeding a chick (cepsok of flight) in Jodprint. These were probably members of Archib's family. In general, there seemed to be a lack of joyous, lower if you will, closely occasional birds are seen sitting here & there.



Holmes, R  
1961

Stercorarius pomarinus

3 June Barrow, Alaska

Two lone individuals seen between the centre marsh trapline + enclosure + Wobleschlog slough. However, to the east along the north shore of the slough, there were what appeared to be 2 pair - all light phase, sitting + flying. Again, as with the gulls, no feeding activity was noted.

4 June - Several "pairs" and individuals were seen along Red-back Ridge + near Ikroavik. Birds were hunting - in the air, but none were seen to land - for prey. (Some were seen sitting but these apparently were not hunting).

5 June An estimated 30 birds seen between the camp, beachridge, Wobleschlog slough + Elsen Lagoon. One individual was in dark phase; the remainder in light. Many seemed to be hunting, but none were seen to catch a lemming.

6 June Seen commonly between Footprint + Ikroavik during the afternoon. (10-15 birds) - all hunting.  
- all in light phase.

7 June Mostly individuals seen today - (HAR) on the beach ridge, along Elsen Lagoon + ~~near~~ near Voth's Area. All were in light phase. No catches seen, but Muller apparently observed one yesterday.

9 June - Several pairs noted in Footprint lake; these would be seen until the



Holmes, R.  
1961

Stercorarius pomarinus

9 June Barrow, Alaska

Weasel disturbed them. Many lone birds were seen north of harbor + near Ikroavik. (on 7 June - in the late evening, Chamberlain + I observed a jaeger, heavy with a down near Voth's, and - this is the 1st I have seen with a lemming).

11 June Large numbers were present in central marsh. 8 were seen sitting closely together. 11 were flying around - 5 that at one time from the center of the marsh, 28 were seen. Other were seen flying over the beach ridge. All were Pomarine - in light phase, except 1 dark.

12 June A few scattered jaegers seen in the vicinity of Voth's area.

13 June - One seen to catch a lemming near denali gate. Several birds in light phase were cruising the census plot at Ikroavik.

15 June Several birds seen on the tundra, east of the B.R., but numbers seemed to be slackening off.

17 June Only 2-3 birds seen today - during an entire day spent on the tundra.

18 June Very few birds seen in central marsh - Voth area.

20 June None seen a plot at Ikroavik, but 2 seen on Jordan's lake. For the most



Holmes, R.  
1961

Stercorarius pomarinus

20 June Barrow, Alaska

part - They seem to have departed now.

24 June None seen during the past 3 days, incl. the trip today to Oorpiik Slough.





Holmes, R.  
1962

Stercorarius pomarinus

2 June Barrow, Alaska

Flock of 5 seen flying (high - not hunting) to the NE - along Wohlshlag Slough & across over Elm Lagoon.

6 June 1 individual flying <sup>(high)</sup> NE - across the Ikroavik census plot -

7 June 2 flying high - going So. along Elm Lagoon near Wohlshlag Slough

9 June 1 flying over the census plot at Ikroavik; 1 flying over Footprint Lake; 1 flying over Baruk area.

10 June 1 bird near the corner of Elm & Wohlshlag - sitting on a small exposed piece of tundra - gave several yank-yank --- to another bird as it flew over & headed So.

A pair was seen at the south-east end of Central marsh - near the south end of the beaver ridge. The birds were doing the head tossing - facing each other - & a short tug-o-war with a limping was noted. So courtship was being carried on - maybe some will nest yet.

11 June ~~Had~~ Saw several birds around the beaver ridge - perhaps one settled pair near meadow lake & one east of magnetic station & 1 of the Beaver Ridge. One tug-o-war was noted between a pair E of the ridge & later the two birds were seen 30' apart on ground.



Holmes, R.  
1967

Stercorarius pomarinus

2

14 June Barrow, Alaska

1  $\frac{1}{2}$  birds in sight at all times between  
Bevel Ridge - Ootepik Slough + Ikroavik.  
They seem to be quite spread out &  
are actively hunting. Birds at Ikroavik see  
settled - in localized - but no evidence  
nesting yet.

16 June. Settled birds seen near The Curlew Sd  
area - near Elson Lagoon - Chantry reported  
by Pitelka - along bevel ridge.

18 June Numbers decreasing - only a few seen along  
bevel ridge.

20 June 3-4 birds seen between Vot area & The  
Ikroavik warrigan. 3 birds were seen on  
the plot - but they showed no sign of  
settling & were probably straggling.

21 June Again, 3-4 birds seen along the plot - but  
birds were moving through - hunting - no  
stopping.

24 June 1 seen during flight to Ikroavik. None seen  
while in census plot. Numbers are very  
reduced.

2 July 3 birds seen flying over plot to B.

4 July 1 flying over Wohlsehoy Slough.

12 Aug 1 dark phase in Vot area - hunting.



Holmes, R  
1963

Stercorarius pomarinus

27 May Barrow, Alaska

No jaegers seen along the north ridge - One pair was setting on a mound near the north end of Artelka's Plat. While 3-4 individuals were seen flying over the plat at various times during the afternoon. Several more were seen singly along Etsenloyon. north of Wohlsholoy. Probably 12-15 individuals in all were noted between a magnetic station - Wohlsholoy, Stoyl-Etsenloyon.

Two chases, accompanied by the nasal ~~ay~~ nay, nay calls were noted, but in both cases, all birds moved on - there was no evidence of area-attachment.

28 May None seen in drum area. During afternoon between Britta's area - village slope & Uth area - Saw 11 (incl. 1 melanistic). South of the village - near village slope - 2 birds were found - 300 yds apart - both 1 which acted like they were settled, altho. no territorial defense <sup>was</sup> seen. When they were flushed, they returned to the same area. - lemming activity was frequent in this area. A "settled" bird was also present near the insect plots.



Holmes, R  
1963

2.

S. pomarinus

28 May Barrow, Alaska

In evening, 6 jaegers seen between Wohl + ookpik slogs - 2 along Pitelka's Plot + 2 together on ground on north edge / central marsh - near Beach Ridge - so. of IAC S.

29 May 3 at si. end of BE - 1 chased off by other too. - same seen at ookpik x elson. Wohl → ookpik - 5 individuals + 1 pair seen. Frequent individuals seen no. / Wohl - to inc. of Brant Point.

In evening - 8 were seen along the No. beach ridge - inc. 1 dark + 1 light colored remained close together. Many others (20+) seen between beach ridge + ELSM.

30 May At least 30 seen between Britton's Area - Wohl + Beach Ridge. Some chasing + "naaymg" were noted.

31 May Numerous individuals along ELSM (Agson bluff) (20-30 ±)

2 June # observed by scanner SE → SW from Denali gate - 16. Many birds seen in the south village sloop area - some were definitely displaying areas, chasing away other individuals. Birds were as frequent at Ikroavik; south of well + ookpik slogs + unoccupied area. Estimate - about 8 birds / square mile?





Holmes, R.  
1963

Stercorarius pomarinus

3 June Barrow, Alaska

Many - along Eism lagoon between Barrow Point & Sukpal - many were sitting on mounds or defending against wandering birds - or perhaps adjacent pairs ??

5 June Jays are still abundant - chasing & perhaps the dominant activity of the birds - many are seen sitting on mounds, etc. - little hunting activity is noted.

6 June - Same as above for Voth Area - Village Slough.

9 June Tough-o-war between pair - ♂ would swallow each chunk, as they tore the Lemmy apart. Others seen hunting & chasing today. No nesting behavior noted.

10 June Numbers seemed lower today - birds were encountered here & there (1 pair on North Beach ridge, 1 near Eism lagoon - chasing - 3 ad. & wandering). None seen on Pitelka's Plot or on Decker's ridge. In Voth Area, only 2 singles were seen.

11 June In drum area, pair - several ridge on Gasline. 1 So. 1 Gasline Ridge. None seen between Gasline & beach ridges.



RTH

1963

S. pomarinus

4

11 June Barrow, Alaska

In afternoon on white-mud sedn/bv -  
one pair was called south of the  
ridge, east of meadow hole - they  
were seen to defend against 2  
wandering birds. - appeared that  
several birds in the afternoon  
were not attracted - but  
moving slowly on the tundra -

- Nest with 1 egg located  
300 yds - west of road slope - hole  
was a village slope. - in  
polygynous - slight depression. -  
are around now moderately -  
developed polygynous. - 1 bird in  
fluster for the nest

12 June Nest 1 - with 1 egg - 4 in nest - 100 yds sand/  
flint pan layer, 50 yds - west of mag. station. On  
low polygynous - sparse covered with grass &  
moss

Nest #2 - with 2 eggs + small incubated  
bird - 50' west of center of  
area - stakes - ie west of large cluster  
polygynous - near 100 yds. Same situation  
as #2 - above

Nest #4 2 eggs - inc. ♀ - 200 yds west of Elm  
lagoon, 300 yds N, of W. boundary - on mound  
dead grass arranged loosely around cup



RTH  
1963

Stercorarius pomarinus

12 June Barrow, Alaska

Pair located halfway between Culiciter-Rd  
& insect ponds - 1 bird shot by Johnson -  
The nest had one egg. - KAT

15 June - Several pairs seen between beach ridge &  
Ikroavik - one just south of beach ridge  
near the gasline, 1 just north of gasline  
ridge - 1 along west shore of footprint  
lobe, 1 in valley north of Ikroavik (bird  
seen <sup>2 eggs 6-17</sup> - not #10) near stake 10.0 &  
adjacent area Census plot. Birds when  
are here now - seen to be nested -  
perhaps 1-3/sq. area mile).

17 June Same pair located off to west of 10.4 - through  
Census plot. No nest located. No  
wandering birds seen.

In evening at Nest #3 (near Culiciter  
Sept. area) - 4 birds moved south in  
a loose flock & were chased by the  
sitting birds.

Nest #5 located 200 yds south of  
beach ridge, 10 yds east of north  
meadow lobe - with 1 egg.

18 June Nest #6 a small polygon - 75 yds  
west of gaswell road - 200 yds north  
of footprint.

19 June Nest #7 - with 2 eggs - 20 yds NNE of 0.01  
Pitella 1, Beach Ridge Census plot



Holmes  
1963

Stercorarius pomarinus

6.

23 June Barrow, Alaska

Member 1 pair from nest #2 near  
Elsin Lagoon - now for feeding, apart  
a ♂ Red Phalarope - when the latter  
was checked - oft scurried off the ground -  
it was found to be cold - so this  
may not have been a full hatch. In  
any regards, the birds were feeding it  
apart by tugging.

25 June One pair hanging around 10.4 on the  
Shrubby plot - but no nest has  
been located yet.

26 June Another nest - (#9) - found 200 yds south/  
middle salt lagoon + 180 yds E of creek -  
or low mound. - contained 2 eggs.

29 June Birds with nests are still around - but  
they are relatively inconspicuous & only  
call or pass when one approaches their  
nest or when other gulls are by.  
No wandering - nor - brush have been  
eaten for several days now.

3 July - Same as above - the birds are seen  
locally - but are widely spread

8 July Young bird seen by Boyd & Johnson - in ELSA's  
marsh - from which nest is uncertain

7 July - Nest - 300 yds N. of Shrubby found earlier - checked  
today & it had only an empty egg shell - which had  
not hatched - but had been pried open





Holmes, R.  
1963

S. pomarinus

7 July Barrow, Alaska

(Field Chicks, d. al.). About 2012 a female  
nest-~~ed~~ c & was caught in a box trap-  
c & ♂ was marked. Aft amputating her  
foot - where was hanging by a tendon, she &  
her mate flew off but remained in the  
area. Perhaps. My dissected the nest &  
some other juveniles cannibalized it - in May  
My did it themselves.

9 July The above 2 birds were not seen in the  
same area. The nest north of Footprint  
had just hatched - 1 year, was out of the  
cavity - the 2nd - was just out - 1 h  
egg - sitting in the cup.

12 July Nest #7 (E 1/2 mile ridge) - with 2 small young - 2-3  
days old. - both adults in attendance. At nest  
#2 - one adult was found dead (shot) - probably  
happened 1-2 weeks ago - eggs gone - probably  
predated. At nest #9 - Sr. / middle saw  
logon, one of the adults was brooding 2  
1-2 day old young in the nest site. No young  
were banded.

13 July A pair - overcast & over light phase - at south  
west side of Footprint - by calls &  
behavior, they had eggs in young  
nearly. - collected.

There are 3 pairs near census plot - 1 W  
of 10.0 - 1 young SE 125.0 & 1 2022 SW 125.4.



Holmes, R.  
1963

S. pomarinus

14 July Barrow, Alaska

PJN #3. near EISA lagoon. Curlew S & area - with young away from the nest + both adults present & concerned about my presence - chicks were not seen.

PJN #4 - at EISA x Wobbschly - N. 81° 15'!  
No adults & chicks - probably shot out - eggs & debris, remains not present at the nest

AT Chicks nest - E of head ridge plot & north of Wobbschly - both adults were present - 1 chick had hatched & was there; the other was still pipping.

15 July Chicks nest - north gasline ridge had hatched - the adults were present & excited while I was at the nest site - but the chicks were not seen. Both chicks at the nest next to O.V. or beaver ridge were present & were seen waddling on the tundra, 50 yds from the nest site.

17 July Several wandering individuals - more on the plot - apparently hunting.

18 July Found a pectoral sandpiper - adult - ♂ probably - which had been late - pectoral to the bone - probably by a plover - not / b. r. - lost / ATCS.

19 July 1 chick / pair south of Voth the banded today - the other was not seen.



Holmes  
1963

S. pomarinus

9.

22 July Barrow, Alaska

Birds from the nest E of b.r. + north of J. Brown.  
Wannyn were seen by Phil Johnson to  
take 2 eggs from a sandpiper nest (sp?)  
+ leave 2 with large holes poked in them.  
The was near the wannyn.

23 July At the south end of Ikroavik census plot -  
one bird was seen to attack a ♀  
Spectacled Eider - by diving at her  
several times - at which she waddled  
off into a pond. The jaeger still hovered  
at her - flying low - hovering above her -  
while she splashed water with her  
beating wings. Finally, she took flight  
+ the jaeger did not follow. The  
actual maneuver made by the ♀ + the  
jaeger were not observed accurately -  
since the all happened in about 3 sec.

26 July A pair of jaegers were at least 1 chick  
(banded) - south of wobblesble floyd - 50  
+ 1 and 1 banded indg. - then not was  
not found the reason.

29 July See journal for acc't of predation - should be

4 Aug Several wandering Ad jaeger seen in the  
both one + one floyd - most were  
flying regular - low above ground - but  
one was evidently hunting.



RTT  
1963

S. pomarinus

10.

5 Aug Barrow, Alaska

Numerous Birds (20+) seen between Vent Air + Skroand Plot - most were flying + hunting - a few were sitting. No juv's were recognized. The Numbers seen represent more than birds in the area traveled - ie wardens.

9 Aug

Nest #7 - NE / 0.0 or FAPS Cerise plot - both adults + 1 flying immature - (2nd couldn't be found). Both flying young - reported by Muller from the enclosure - north wablschlag area.

12 Aug

One adult seen eating a large (but not quite flying size) golden plover chick - when approached for close, it would fly off with the chick in its bill + land 100' away + return to feeding the bird apart.

South of Jackie ridge (200 yds south of 10.0 or line I + II) - 2 flying juv. chicks + at least 1 Ad. - There had been a nest in this general locality - but it has not been found.

Another case - 300 yds E of Fent. plot - 12 Ads + 2 flying chicks - so both have been seen in some cases. Several other <sup>adults</sup> ~~was~~ were seen flying + hunting - but no other juv's were found.





RTH  
1963

S. pomarinus

15 Aug BARROW, ALASKA

Several adults seen flying on beach ridge; one wobbled & flopped & on tundra between Fert. plots & meadow lakes.

Two flying chicks south of garden ridge & 1 by north meadow lakes. -

18 Aug Juvs still quite common. One adult was observed flying up a lemming burrow - in a mossy area.

22 Aug 1 chick (flying) west of South Meadow Lakes. Two flying immat. - west of Ad south-east of Fert plot. Several hunting adults seen between So. meadow lake & Fert plot. Dr + chick east of BA - (O.O of FAP's census plot) - were not seen.

23 Aug Several adults seen along beach ridge - north of Pitelka's plot. - no immat.

25 Aug Several seen hunting on tundra.



Holmes, R.T.  
1964

Stercorarius pomarinus

4 June Barrow, Alaska

6-7 seen hunting over tundra - water & milk ponds  
(= food intake) + Deane Ridge. All scattered  
occasionally sitting. What appeared to be localized  
pairs (defending a particular bird - advertisement  
from ground - oft 2 sitting together) seen  
all along beach ridge from AAs to water. <sup>bluffs</sup>  
Along E - along N bluff - along E & N ~~bluffs~~  
in central marsh. No ~~pairs~~ noted - most  
single or pairs - after hunting.

5 June Not as common as seen in Voth Landing -  
some - several localized ~~pairs~~ noted -  
one having or displaying. Fewer indiv.

seen along beach ridge - only 1 on Pitkin's

Plot - also several others flew over

6 June Several along North beach ridge & flying over central  
marsh - some also, E & N lagoon. First dark  
phase of this evening.

7 June At least 2 settled pairs along coast near 1  
BR - (one near the corner - one opposite  
Stoke 3.0.4.0 on Pitkin's Plot). One attempt at  
copulation noted but ♀ resisted by raising head  
& "snapping" at ♂ as he hovered<sup>or</sup> (I think I stood  
a bit - but he settled I was - she cocked her  
tail - he again tried to mount but she  
did not allow him to settle.

8 June 2-3 settled on north beach ridge - settled locally  
chasing & advertising (ground cover, etc.)



RTT+  
1964

S. pomarinus

2.

9 June Barrow, Alaska

Numbers are decreasing - very few are locally settled & those seen are primarily on the move. No courtship or defending-type behavior has been noted in the last 2 days.

11 June No settled or defending birds along the beach ridge (north or east). - Several (8+) wandering birds hunting along the ridge.

12 June During morning along No. beach ridge - only 3 seen - 2 were moving along the ridge toward the east. The other was sitting - a small mound on the edge of C.M.

16 June Scattered birds still settled - one - north edge of central mound - below 3 barrels - 1 on polygons - east of the north end of P. Island. 2 obs.

19 June Nest with 2 eggs, 75 yds west of gasoline road, 200 yds south of north area. Both adults - light phase.

20 June Nest with 2 eggs - 200 yds west of gasoline. So. of beach ridge in low polygonized & pond-dotted area. - both light phase adults.

25 June 1 Nest near where Wannagin used to be at Ikroavik & one - about 100 yds west of strike 160 - another pair located SE of 25.0 - but ranging over the southern end of the plot. Others along east side of Ikroavik.



RTH  
1964

S. pomarinus

28 June Barrow, Alaska

Gray & Y. moving south on beach  
ridge at 75' elevation. Loose  
flood.





Holmes, R.  
1959

*Stercorarius parasiticus*

11 June Barrow, Alaska

One seen in and near the drum area at 2000. It would fly with its head pointed down and occasionally would turn and land on an exposed area of tundra.

It was never seen to pounce on anything or pick up anything, but apparently it was looking for food. After about 10 min. it left the area in the direction of the sea.

19 June Barrow, Alaska

A pair seen along the beach ridge, east of the gas line. They were seen in a chase and proceeded to head northward. They were not seen during the ~~past~~ remainder of the day.

21 June Barrow, Alaska

One bird seen crossing the beach ridge near the gas line.

25 June Barrow, Alaska

A pair was seen just N of the East Census Area along the shore of Elson Lagoon. They appeared to be feeding.

26 June Barrow, Alaska

One seen near gasline on beach ridge.



Holmes, R.  
1954

Stercorarius parasiticus

2.

7 July Barrow, Alaska.

A pair was seen on the east slope of the black ridge near the census area. They were sitting on the ground, but no activity was noted. (Another pair was seen just W. of the east census area along the shore of Elenor lagoon. They were seen feeding on some bird, as when they left this was looked into. It turned out to be part of a back of a female eider. They had been seen near it, but apparently it was not fresh enough as they moved on. This pair was joined by a third bird which was in dark phase. The three then began moving along the lagoon.

8 July Barrow, Alaska

One seen flying near the south end of Middle saltwater lagoon.

16 July Barrow, Alaska

Two birds seen separately near Wohlsehlog's Slough. One was a dark phase. No breeding activity was noted. These were along the slough, but where they were seen before.



Holmes, R.  
1959

Stercorarius parasiticus

3.

5 August Barrow, Alaska

Two seen near Nuwak harassed  
Sooty Gulls and Kittiwakes.

11 August Pitt Point, Alaska

Three (1 dark phase) were seen  
just SW of the base.

16 August Pitt Point, Alaska

One seen about 1/2 mi east of  
the base. It was flying high  
and direct towards the east.

27 August Barrow, Alaska

Two seen over the Beach Ridge  
in the late evening.



Holmes, R.  
1966

*Stercorarius parasiticus*

30 June Iktroavik, Alaska

1 seen flying east over the pond  
in front of the warehouse. It was  
attacked by several pomarine  
as it passed through. - dark phase

1 July - another(?) dark phase bird seen  
near the south end of the plat. It  
was also attacked by pomarines.

24 July Barrow, Alaska

1 seen on Blackman's Island - east  
of the pass.





Holmes, R.  
1961

Stercorarius parasiticus

10 June Barrow, Alaska

1 light phase seen feeding on insect larvae?  
(at least pecking frequently at the ground) - No.  
of Voth's area.

13 June 2 seen flying across census plot at Ikroavik

17 June 1 seen, being harassed by 6 phalaropes  
along the B.R. census plot. - light phase

24 June One seen in company with 2 long-tailed  
jays along the Beach ridge. All 3 birds  
were standing on the ground, walking back  
& forth pecking at the vegetation (or in 1 case  
an old piece of newspaper). Finally, a  
long-tail picked up an object - which looked  
like a clod of dirt or moss & attempted to  
swallow it. The other long-t. & the parasite  
both tried to take it away from the  
possessor by fighting - with a tug-of-war-  
like process. Finally, the l-t. swallowed  
it & all three birds flew off - this may  
have been a dead or dying carcass.

25 June 2 dark phase seen along Pitmeor plot.

27 June 2 birds, 1 dark & 1 light, seen with  
a flock of 10 long-tails on the Ikroavik  
plot.

5 July 2 seen by Sullivan near Voth -

7 July 2 dark phase hunting along ridge  
N+E of Ikroavik lake. Not seen to land  
or take anything - but would soar



Holmes, R.  
1961

*Sternomaria parasiticus*

7 July Barrow, Alaska

back & forth over the ground, gliding low  
& then around in circles & back & forth.

9 July 2 - dark phase seen flying low  
along Woblesley Slough - at its  
inner end. -

11 July '2 in light phase seen flying over the insect plot.

13 July 2 light phos. see flying along  
Wohlschlag Slough. Foo were again  
seen near Voth's Slough.

16 July / Seen near 10th Ave

19 July 2 dark, show, so. - 1 white. Strong.

21 July 3 " " " " Samuel Lopez, #1

Near the coast just west of the camp.

23 July 2 seen near the insect plate, 1 near  
Elson-wohlschlag.

26 July 2 sec near the no. 1 of 2b road.

17<sup>th</sup> Aug 2 dark phase seen fly in; one central  
marsh - one light phase seen fly in  
one the 60kph plot.



Holmes, R  
1962

Sturneravis parvirostris

12 June Barrow, Alaska

1 seen near EISC lagoon

14 June 1 at the south end of the lake - 1 near Ikroavik - 1 dark + 1 light phase in the gas line - crossing area of beach ridge

16 June 3 in light phase seen 200 yards west of EISC lagoon - w. 1 wobbleslag slough

19 June 3 seen where gas line crosses beach ridge.

20 June 3 seen over the north sector of the Ikroavik plot.

23 June 1 dark phase seen near receiver site.

24 June 3 light phase flying high over pond - No. 1 Ikroavik + 1 dark + 1 light seen near British House

26 June 1 on B.R. at gas line - 1 near insect plot both light phase.

29 June 2 near insect plots.

1 July 1 Dark phase hunting actively E of Vork. Area This probably is the individual that cleaned out the Auklet Sdg. nest!

2 July Groups of 3 along the Ikroavik insect plot

4 July 2 (1 dark, 1 light) fly E over wobbleslag slough.

5 July 4-5 seen flying over the Ikroavik plot at different times - in groups of 3 + 2 separate sightings - all appear to be hunting.



Holmes, R.  
1962

*Stercorarius parasiticus*

2.

7 July Barrow, Alaska

Two seen over the D.R. - near the magnetic station & one was hunting over the insect plots. It seems that these birds are probably taking a large number of shorebirds - eggs & / or chicks - since they seem to cruise over a large area & a number of nests have been lost - presumably to this predator.

8 July

One black phase by Fresh Lake at 1400 -  
2 black phase on beach ridge near gasoline at 1600. One light phase flying with 2 long-tail near the Charles Sog nest - near Wobleschlag.

9 July

Several on the Skroavik census plot & along the south shore of the lake.

21 July

One dark phase flying high over insect ridge - moving E. 1<sup>st</sup> one seen in 1 1/2 weeks.

25 July

1 N. of magnetic station - the Beach Ridge

28 July

Two seen south of Wobleschlag slough -  
1 dark & 1 light - both hunting. In  
flying low over the tundra - circling  
around.

30 July

1 flying west over Central Marsh.

12 Aug

6-8 seen on the No. 100 - 100  
Marsh area (3 dark & at least 3 light)

13 Aug

2 seen near for  
Insect plots

14 Aug

1 over Insect lake - 1 near Central Ridge





Holmes, R.  
1962

Stercorarius parasiticus

13 Aug. Barrow, Alaska

2 seen south of gulch ridge: 1 in morning &  
4 were flying over No. 1000 Area in the  
afternoon. All were hunting - prowl  
leavings.

14-15 Aug - see previous page.

27 Aug - 1 dark - 1 light seen low over tundra,  
south of gulch ridge



Holmes, R  
1963

Stercorarius parasiticus

15 June Barrow, Alaska

One seen flying south over drum area

16 June One dark phase - fly south on beach ridge.

17 June Two birds moved south along throat census plot.

18 June One individual seen north (census plot) - seemed to be chasing a wandering plover.

20 June 4 birds milling around light (300+)' - in air - N. 1 census plot - some chase involved - couldn't tell what was going on.

23 June One flying across beach ridge & into central marsh

26 June One dark phase near Ellis Canyon - C. S. display area.

3 July 1 flew over plot at Ikroavik

8 July 2 with flock of 12 long-tail - feeding a adult leucophaea - near treeline IV A-B.

22 July 1 dark phase along Fresh Lake.

24 July 1 light phase flying over north beach ridge.

6 Aug 1 light phase so North Area.

15 Aug. 1 dark phase flying over Wrabblers flight - near the crossing.

23 Aug 1 light phase flying across North Area - hunting.



Holmes, R.  
1964

Stercorarius parasiticus

20 June Banno, Alaska

1 dark phase hunting along No. Berel Ridge.

22 June " " " " " " " " " " " "

23 June " " " " " " " " " " " "

26 June " " " " " " " " " " " "

27 " " " " " " " " " " " "

+ 3 light phase together " " " " " "



Holmes, R.  
1959

*Stercorarius longicaudus*

23 June Barrow, Alaska

One bird seen flying over the east census plot-area near Elen Lagoon. It called hoee and was more shrill than the Pomarine Jaeger. Another bird was seen in Central Marsh later in the afternoon.

7 July Barrow, Alaska

One (+ 1 unid. jaeger) seen near the traplines in Central Marsh. The wing beat is noticeably faster and they appear darker on the posterior end.

16 July Barrow, Alaska

One seen on the west shore of Elen Lagoon in the East Census area.

20 July Barrow, Alaska

Three seen near Nuwuk harassing a Kittiwake.

31 July Barrow, Alaska

One seen just so. of Freshwater Lagoon sitting in the tundra.

5 August Barrow, Alaska

One seen near Nuwuk.

26 August Barrow, Alaska

One seen sitting on the beach ridge.





Holmes, R.  
1960

Stercorarius longicaudis

24 July Barrow, Alaska

One seen on deadman's island -  
east of Eleuthal Pass.

3 August - 1 seen along the edge of  
salt lagoon in the gravel area.



Holmes, R.  
1961

Stercorarius longicaudis

17 June Barrow, Alaska

1 seen, being harassed by phalaropes - near  
gas line ridge.

20 June 1 seen near Ikroavik.

24 June 2 seen with a parasitic paper on The B.R. (see  
parasitism). 1 individual seen flying  
No. over Wahl-slough.

27 June Barrow - Ikroavik, Alaska

A flock of 10 seen sitting & flying on  
the plat. One bird was pecking at  
a mummified murre - when  
it refused to leave until it  
was less than 10' away. The  
murre seemed too far gone to provide  
any food value - so again it looks  
like the birds are scavenging.  
They may be taking dead eggs!!

9 July Flock of 2 individuals feeding at  
the south end of Wahl-slough. We  
have been picking insects from the  
grass(?). Chamberlain reports a  
flock of 40+ at the south end of  
central marsh - 2 were collected.

11 July 4 seen near the insect plot. All storm (2)  
had myriads of adult crane fly remains -  
so his hawking behavior is apparently  
to catch insects.



Holmes, R.  
1961

2.

*Stercorarius longicaudus*

13 July

Barrow, Alaska

5 were in Footprint Lake, feeding on insects & just sitting. 2-3 were flying around over Voth's Slough. 1 seen near the insect plots.



Holmes, R  
1962

Stercorarius longicaudus

29 June Barrow, Alaska

2 seen feeding on the grassy slope of barrel ridge - appeared to be taking Ad. Tipulids.

30 June Flock of 85 on the east side of Central marsh - feeding on the marsh - probably on Tipulids - or at any rate on insects.

1 July 5 seen west of Footprint - along Red-bell Ridge

4 July 4 in Central marsh. - feeding on the ground.

5 July 1 seen flying over So. end of Ikroavut Plot

6 July 3 flying over drum area; loose flock of 30 east of B.R. - near Elsa Lagoon.

8 July Flock of 34 on marsh east of barrel ridge - 2 flying west - Parovoti near Woblesby + 6-8 in Central Marsh - most were on the ground - several were flying & hunting.

9 July Small numbers (groups of 3-5) seen on the Ikroavut inner flat + along the south shore of Ikroavut Lake.

11 July 120+ near Meadow Lake - sitting & walking on the tundra. Another 6-8 seen east of the barrel ridge - flying & hunting.

12 July 66 - on flats N + NW of warmer at Ikroavut. 6 seen on the plate. 6 more flew over with one during the P.M.





Holmes, R.  
1962

Stercorarius longicaudis

14 July Barrow, Alaska

30+ east of beach ridge - half way to Elson.  
10-15 along the west side (central marsh  
side) of B.R. + small groups of 2-6  
birds seen near Voth + Insect areas.  
These birds seem to be almost  
everywhere - seen sitting - walking +  
apparently feeding - insects or flying +  
hunting.

16 July 30-40 - 80 / Footprint + several near the  
plab.

19 July None seen today or during the last two days.  
All seem to have departed.

21 July 3 seen over the No. Voth Area. - flying high -  
apparently not hunting.

24 July 4 birds - 1 mi. apart fly NE over the  
Voth Area + over marsh.

25 July Three individuals seen scattered between  
Beach ridge + Elson lagoon.

26 July Two seen flying near Voth Area - caused  
Dunkles who were feeding on open block mounds  
to run + crouch in tall grass.

28 July One seen so. of Woblesby bog.

30 July 1 in central marsh.

31 July 3 flying high over insect area

1 Aug 2 in Footprint Lake - 2 on mud flat -  
all were flying low, hovering + apparently  
hunting.



Holmes, R.  
1962

Stercorarius longicaudis

3.

2 Aug Barrow, Alaska

4-5 individuals hunting between  
Cokeater (VOR) Road + insect plots. —  
most were hovering 30-60' above the  
ground. There seems to have been a  
increase in jagged activity during the last  
3-4 days.

6 Aug 3 seen over insect plots — flying high.

13 Aug One " " " " " " low  
probably hunting.

18 Aug 4 seen between Beach Ridge + Elson Lagoon —  
all were flying low + hunting — two were  
seen to have for 20-30 m.



Holmes, R.  
1963

Stercorarius longicaudus

11 June Barrow, Alaska

Two flying west along beach ridge - one bird calling.

21 June One being chased by a Pomarine across census plot.

2 July Three flying high over insect plots

8 July Flock / 12 (+2 parasites) near Tropicum IV A-B. feeding in grass - probably after adult typhoids. Another group / 6 - north / insect plots.

9 July Flock / 9 near Shward plot, - 1 indiv. flew over the plot.

12 July Group / 3 near the insect plot - NW / 100 ft.

13 July 2 flew over Shward census plot

14 July 1 flock / 6, south / south salt lagoon, 1 / 8 near insect plots.

17 July Several groups / 6 - 58 - near Shward.

The large group of 50+ was at the northern / the lake + all were milling around in the air at one point but then they scattered + settled in the tundra - probably feeding on typhoids.

18 July 11 - in 1 flock near insect plots - feeding in grassy areas.

20 July Flock / 10 flew across census plot - Shward, Group / 25 - 1/4 mi north / Shward lake

22 July 8-10 along Fresh lake



Holmes, R.

S. longicauda

12 Apr Barrow, Alaska

4 flying, west over Wohlseh's flag - new  
crossing.





Holmes, R.T.  
1964

Stercorarius longicaudus

15 June Barrow, Alaska

2 flying over north beach ridge.

20 June 3 long-tails flying over north beach ridge.



Holmes, R.  
1959

Larus hyperboreus

4 June Barrow, Alaska

These gulls are seen congregating near the garbage dump, S. of the base. Their calls can be heard at a great distance.

5 June Barrow, Alaska

Several noted flying over base

6 June Barrow, Alaska

6 seen near dump in the evening

9 June Barrow, Alaska

2 seen in the dump area

13 June Barrow, Alaska

Several seen flying over the dump area and the drum area.

14 June Barrow, Alaska

About 10 seen over the dump.

15 June Barrow, Alaska

Three seen in the drum area as they flew over the jaegers. One was observed to land close to a jaeger, which forced the jaeger to move to another mound. These gulls were evidently hunting. One picked up a lemming, and the other two immediately joined the other, and a fight took place. The original gull, however, took off and was able to swallow the animal before the other two took it away. The gulls then resumed their roving over the tundra.



Holmes, R.  
1959

2.

Larus hyperboreus

15 June Barrow, Alaska

Several seen during the afternoon flying through the fog. As they did so, they called loudly and could be heard long before they were seen.

25 June Barrow, Alaska

A pair were noted near the south end of the beach ridge near Wohlseh's Lagoon. They were making various noises which sounded as if they could be nesting.

5 July Barrow, Alaska

Several seen near Nunuk and to the eastward along the sand spit.

6 July Barrow, Alaska

Three seen flying over the tundra near A.P.C.S.

7 July Barrow, Alaska

Two seen flying over the drum area during the afternoon. One was molting in the wings.

14 July Barrow, Alaska

One seen near the dump near the base and about 6 were along the west side of the middle salt lagoon. None were seen along the ocean.



Holmes, R.  
1959

*Larus hyperboreus*

3

19 July Barrow, Alaska

Several individuals seen along the ocean between ARC and the village. The majority were sitting on the water, but a few were noted flying.

20 July Barrow, Alaska

Several seen between base and Newok.

25 July Barrow to Wainwright, Alaska

Many groups of these gulls were seen along the coastline. Some were settled on the lagoons, others on the ocean while others were flying around. Most of these birds seemed to be adults, however, there were a few 2nd and 3rd year birds.

28 July Barrow → to Pitt Point, Alaska.

Many small groups were seen along the ocean edge. There were many of the 30-40 bird size.

31 July Barrow, Alaska

15 seen at mouth of Wohlsehley's Slough. These consisted of Adls. and Imm. Both were molting.

5 August Barrow, Alaska

Large groups of adults and immatures were present along Elsa lagoon towards Newok and the pier.





Holmes, R.  
1958

*Larus hyperboreus*

4

19 August Barrow, Alaska

8 individuals seen flying along the shores of middle saltwater lagoon. Many others were present along the ocean front.

24 August Barrow, Alaska

Numerous individuals and small groups (2-8) have been seen during the last few days along the ocean front at the base and in Freshwater and Middle Saltwater lagoon.

27 August Barrow, Alaska

Many seen on the way to Mount. Most of these are adults, however, a few 2nd & 3rd year birds are mixed in.

31 August Barrow, Alaska

Several birds are always present along middle saltwater lagoon. There are adults & 3<sup>rd</sup> year birds.

5 Sept. Barrow, Alaska

Two seen flying near Voth's Area



Holmes, R.  
1960

Larus hyperboreus

28 May Barrow, Alaska

8-9 gulls seen along the beach ridge and central marsh. They were seen standing on the exposed tundra, and presumably, they were feeding on lemmings. One was not observed, however.

29 May. Barrow, Alaska

11 were present at Footprint Lake which scattered individuals + groups of 2 + 3 were seen elsewhere.

30 May Barrow, Alaska

6 were seen standing on the tundra just north of Voth's Area - no feeding activity was seen.

31 May Barrow, Alaska

19 were present on the beach ridge. One was observed with the lemming on its bill.

1 June Barrow, Alaska

In the afternoon, 6 were seen along the beach ridge near the beverage antennae.

2 June Barrow, Alaska

One was seen near Footprint Lake and one was found dead in a fox trap, north + west of Ikroovik.



Holmes, R  
1960

Larus hyperboreus

2.

3 June Barrow, Alaska

4 seen sitting on Elson Lagoon this morning, but no others noted. The group which has been on the beach ridge are now gone.

5 June Barrow, Alaska - Innam River

On a marshy flat near the edge of a lake, about 3 mi N of the Innam River, a gull nest was located. It was a mound which had been built up to a height of about 4-5 inches and contained small pieces of dried grass + sedge. No eggs had been laid, but the adult was present.

7 June - 2 seen on the Beach Ridge near the census plot.

26 June - a flock of immature birds (mostly 3rd year, 1 or 2 darker immatures - 1st or 2nd yr?) were seen sitting on the ice on the lagoon south of salt lagoon.

17 July Ikroavik, Alaska

One adult + chick reported by Carser near the south end of Ikroavik.

24 July Barrow, Alaska

4 flock of 3rd-yr immatures seen sitting in the hood of the hoodman.



Holmes, P.  
1960

*Larus hyperboreus*

3.

24 July Barrow, Alaska

Island - east of Elkutuk Pass.  
Occasionally, other birds were seen flying - in the same area.

31 July - A few seen near Tapkuluk Island (east of Rodman's Island).

3 August - A nesting site was found on a lake-located about half way between dry lake & low lake (just so. of our nest #13). The adults were present, and both became excited at our approach. The ♂? dived at us several times during the first few minutes, but then finally resorted to flying high and giving the loud gut-like cry. One chick was seen in the lake but was inaccessible. The lake itself was about 100 yards long & 75 yards wide. The nest was located on a small island (5' x 2') about 25 feet from the west shore. It was composed of dried grasses which form a depression. The pellets were picked up for analysis. It appeared that they may have been feeding at the camp during





Holmes, R.  
1960

4.

Larus hyperboreus

3 August Barrow, Alaska

Since bones resembling chicken bones + seeds (like plum pit) were found. Another nest site was seen several miles south of Antler Lake; this one had 1 young. Another mouse with three young was seen N. of Antler Lake. These last 2 nests were located on small islands in the middle of the lake + were therefore impossible to visit.

16 August Barrow - Cape Lisburne, Alaska

Scattered birds were seen all the way along the coast from Barrow to Lii A. There were mostly adults, but a few birds of the year were seen. See journal pp. 54-57 for the description of the gull colony on Iqsewik Lake, inland from Cape Lisburne.

21 Aug Barrow, Alaska

Three seen sitting on the tundra north of Footprint Lake. They were not seen to feed on lemmings while I watched them.



Holmes, R.  
1960

Larus hyperboreus

5.

25 Aug Barrow, Alaska

One seen along Freshwater  
lagoon. (Adult)

27 Aug Barrow = F.H. Point, Alaska

Numerous individuals seen at  
the site at F.P. South  
of this area about 5 miles  
a pair of adults + 2 (flying?)  
juveniles were seen sitting  
on a pond. The nest site could  
be seen on a small island  
near the center of the pond.

3 Sept Barrow, Alaska

Two seen standing on the tundra,  
north of Footprint Lake.



Holmes, R.  
1961

Larus hyperboreus

3 June Barrow, Alaska

4-5 adults seen sitting on the snow or flying - near the magnetic station on the beach ridge. No feeding activity noted.

4 June - 2 seen near Voth's area.

5 June 4-5 were seen in central marsh. One had picked up a lemming carcass, & the others were trying to take it from him. Finally, the bird flew off with the animal in its beak & landed near the weasel. When flushed, the lemming dropped & upon examination it was found that the carcass was an old dead up - partially skeletonized lemming - seemingly of no food value.

7 June Several adults seen in central marsh.

9 June 2 seen - Footprint Lake - 1 Ad - 1 3-4 yr. indiv.

11 June 1 seen feeding on lemming on the west side of central marsh. Three others seen flying over the marsh.

20 June 1 seen near Footprint Lake

24 June 2 seen (1 4th yr.) on tundra south of Wash. St.

13 July 50-60 seen So. of Voth's Slough - almost to Footprint where they were feeding on insects - which were on the carbon remains. Most were 3rd or 4th year birds, but a few Ads. were present.

21 July Flock of 150± seen just north of the insect plots, - sitting - polygonal - colonies



Holmes, R,  
1961

*Larus hyperboreus*

27 July Barrow, Alaska

125<sup>th</sup> See sitting entrance, N.O. 1. The insect  
plots - all were taken in 3rd yr. 1st yr.  
No feeding was seen.

28 July - Bull Lake - Cape Lisburne. - see journal.

31 July - 150 sea setting - the ridge N. & R  
inset plots.

9 Aug 102 seen " " " "  
Some 3-4 yr birds were being  
molted.





Holmes, R.  
1962

Larus hyperboreus

28 May Barrow, Alaska

Several seen around the bank in the drumman

30 May

♂ & small flock of 11 on the frozen  
ponds near Britton's area

1 June 2 seen near Elson Bluffs.

2 June 3 seen behind ARL. 2 near Elson Lagoon

3 June Several " "

5 June 12+ near Br. Hn. Area - (incl. 2-3<sup>rd</sup> yr. immes).

10 June 12+ seen along middle salt lagoon & the  
gravel ponds.

14 June Several flying near Dry Lake, Toolik  
Lake. & several flying west across the  
census plot at Ikroavik.

16 June Flock of 22 sitting on the tundra - ~~to~~ So. of 100th  
Ave. [20 on Central marsh - June 13].

21 June Several seen at Ikroavik Lake - 1 with  
molt in primaries. - (apparently been 80%  
immature - probably molting into ad. plumage).

5 July Two <sup>seen</sup> flying along west shore of  
Ikroavik & 1 flew over census plot

6 July 6 - white individuals [3<sup>rd</sup> yr] - on Central  
marsh - new curve in B.P.

11 July 6 immatures on tundra - east of b. ridge -

25 July large numbers of Adult & immature  
gulls sitting on gravel bar in Elson Lagoon  
just off Brant Point - probably  
4-500.



Holmes, R.  
1962

Larus hyperboreus

14 Aug Barrow, Alaska

30 - 3rd year birds section - Lander No. 4  
Voth! Area.



Holmes, R,  
1963

Larus hyperboreus

28 May Barrow, Alaska

One walking around the tundra, south of the village - presumably hunting lemmings.

Two seen standing - snow - on north side of Wash. slough - 1 flying over tundra near oolipik slough.

29 May Two seen flying over mouth of Wash. slough + 2 flying in drum area. Two flying south along Eila lagoon near Brant Point.

30 May Three flying along family lagoon.

1 June 4 on family lagoon bathing in ice-pool.

2 June Four flying over Ikroavut census plot + 1 seen a mile east of gas well - standing on tundra near 2 Pom. Juncos.

11 June 5 flying northwest over beach ridge - towards family lagoon.

17 June One introduced by 2 (singing) 1 on tundra near Eila lagoon.

6 July - Group of 12 3rd-4th year birds sitting on tundra - 10 yds N. of insect plot.

8 July 3 flying over DAFS.

12 July 13 immatures on tundra south of south salt lagoon.

18 July Scattered immatures (20+) on tundra south of South salt lagoon.

14 Aug Group of 18 on tundra south of So. salt lagoon.



Holmes, R.  
1964

Larus hyperboreus

4 June Barrow, Alaska

6 in Drum area - probably feeding at A  
dumps - 2 in Central marsh

5 June 1 flying over Smith's area.

11 June 1 flying over Central marsh.

20 June Group 1 20+ along S. shore of Fred Lake

27 June 9 on Fred Lake <sup>on</sup> ice





Holmes, R.  
1959

Xema sabini

17 June Barrow, Alaska.

Several seen along the Meade River and Colville Delta as we flew over.

30 June Barrow, Alaska

One seen on freshwater lagoon.

5 July Barrow, Alaska

Four seen about 2 miles east of Nauyasuk on the sand bar. They were sitting on a cake of ice and no activity was noted.

15 July Barrow, Alaska

One seen in Ikroavik lake on the edge of the ice.

3 August Colville Delta - Point Barrow - Alaska

Many seen near Thelus Island & Point Barrow and several in the vicinity of the fish camp - The Colville Delta.

5 August Barrow, Alaska

Many hundreds present along Elson Lagoon from the Duck Camp to the Pass. Both Adults & Immatures were present. Several were being chased by jaegers.



Holmes, R.  
1960

Xema sabini

23 June Iktroavik, Alaska

1 seen flying northward along the census plot.

1 July - 2 seen flying northward over the southern end of the plot.

9 July - 1 flying north over the plot.

12 July - 2 seen flying along the east shore of Iktroavik

24 July Barrow, Alaska

Numerous birds were seen at Heedman's Island. The majority were feeding along the lagoon edge - in the lee of the island, but a few were among the numerous trees on the island & were breeding. At least 3 nests were found. These consisted of a few small pieces of sticks or grass placed in a cup in the sand among the driftwood. One nest had 1 egg, one had 2, & a third had 1 egg which had been cracked & which contained a dead well-developed embryo & a dead hatched chick, laying about a foot away. Several other depressions were found which appeared to be old-nests or



Holmes, R.  
1960

Xema sabinii

2.

24 July Barrow, Alaska

deserted nests. Several of the birds feeding were in various stages of molt.

26 July Iktroavik, Alaska

A pair was noted at the entrance of the main slough into Iktroavik (NE of the navigator).

They were exceedingly excited, for they had 2 chicks, one of which was collected. They must have bred in the area, but no signs of them had been seen here previously. The young were at least a week old.

31 July Barrow, Alaska

A few noted near the boat as we passed deodema's Island. None were found nesting on Tyskalok.

6 Aug Barrow = Iktroavik, Alaska

The pair at the inlet to Iktroavik were still there, and their one remaining chick is now flying. Three adults were seen along the ocean near camp on the return trip from the lake.



Holmes, R.  
1960

Xema sabini

3.

16 Aug Barrow = Cape Lisbourne, Alaska

Numerous birds seen flying along  
the gravel bars between Wainwright  
& Lio A. Many were immatures.

18 Aug Barrow, Alaska

Several adults + immatures seen  
near the shore near the village.

21 Aug Barrow = Iktroavik, Alaska

1 seen near Iktroavik. (Immature).





Holmes, R.  
1961

Xema sabinii

13 June Barrow-Ikroavik, Alaska

2 seen in the vicinity / North slough at  
Ikroavik.

20 June 1 seen near the inlet with N. end of  
Ikroavik

31 July 3 Ads seen flying low over Voth's Area.



Holmes, R.  
1962

*Xema sabini*

18 June Barrow, Alaska

One individual seen on the gravel pond -  
Voth & Barrow Road junction.

20 June 1 see flying N. - near Ikroavik camp place

9 July 6 birds - nests - about 20' apart in  
mounds - large encampment at S.  
end of Ikroavik.

25 July 100-150 on water or fishing off Brant Pt. -  
in Elsa Lagoon

3 Aug 3 see flying North over Fertilizer Plant



Holmes, R.  
1963

Xema sabinii

5 June Barrow, Alaska

One seen + collected along EIS in lagoon,  
north of Wobleshlog.

7 July One - census plot - at 10.0 - flying  
along stream.



Holmes, R.  
1967

Xema sibirici

25 June Barrow, Alaska

7 birds sitting & nests on <sup>islands in</sup> large lobe - south of  
Ikroavik (200 yds - west of inlet & 100 yds south  
of lobe) - Birds seem to feed out along  
the shore of Ikroavik & along the channel which  
drain into it.





Holmes, R.  
1959

Rissa tridactyla

9 July Barrow, Alaska

Five birds seen flying over the sand spit between middle salt lagoon and the Arctic Ocean. One was molting and they all were adults.

16 July Barrow, Alaska

Three seen flying N.E. along the coast in front of the base.

20 July Barrow, Alaska

Three seen between base and Nuuk.  
One was harassed by a Long-t. Jaeger

5 August Barrow, Alaska

Many adults and immatures were seen between Nuuk and the Pass.

31 August Barrow, Alaska

6 adults seen flying along the shore (S.W.).



Holmes, R.  
1962

Rissa tridactyla

25 July Barrow, Alaska

Flock of 6 flying along coast of Elson Lagoon  
near Brant Point. - all adults



Holmes, R.  
1959

Rhodostethia rosea

8 June Barrow Village, Alaska

One single individual seen about  $\frac{1}{2}$  mi So. of Barrow Village. It was a small gull with a light gray mantle and red feet. The black ring and rosy color were lacking. It was observed for about a minute and then disappeared - apparently into the ice where it could not be detected.

11 June Barrow, Alaska.

One reported by F.A.P. along the beach ridge in the evening.



Holmes, R.  
1959

*Sterna paradisaea*

17 June Calville Delta, Alaska

Several seen as we flew over.

18 June Barrow, Alaska

One seen 50 yards to the drum area.  
It circled around several times  
and then headed across the salt  
water lagoon to the N.W.

23 June Barrow, Alaska

One flying and calling over the east  
census area.

25 June Barrow, Alaska

One seen flying over the beach ridge  
in the vicinity of the census area.

30 June Barrow, Alaska

One seen a freshwater lagoon and  
was soon joined by a second  
bird. They rested on the gravel  
bar and then flew off.

2 July Barrow, Alaska

Three seen over No. meadow lake  
flying to the N.W.

5 July Barrow, Alaska

Several were seen in the company  
of two Glaucous Gulls in the vicinity  
of Newok, and one was seen  
at the east end of the sandspit  
near Newok. Feeding activities  
were also seen.





Holmes, R  
1959

*Sterna paradisaea*

2.

10 July Barrow, Alaska

Three seen flying over beach ridge.

15 July Barrow, Alaska

6 seen on the north shore of Ikroavut Lake feeding in the open water surrounding the ice cake.

25 July Barrow → Wainwright, Alaska

Many of these birds were seen along the coastline. The majority were seen along the gravel bars where they were probably nesting.

3 August Pow 2, Alaska.

50-60 present on Thetis Island off the point from Pow 2. No nesting activity was noted.

11 August Pitt Point, Alaska

Three seen flying west of the base.

15 August Pitt Point, Alaska

Two were heard flying overhead this morning. They could not be seen due to a low fog.

19 August Barrow, Alaska

8 seen just N. of Footprint Lake.

20 August Barrow, Alaska.

6 flew over the lab houses in a N.W. direction.



Holmes, R.  
1959

*Sterna paradisaea*

3

2 Sept. Barrow, Alaska

A flock of 16 flying in a loose group in - northeasterly direction over the lab.

4 Sept. Barrow, Alaska

An unknown number were present along the edge of the ocean at 2130. They could not be seen due to the low clouds + snow, but they were easily heard.



Holmes, R.  
1960

Sterna arctica  
paradisea

12 June Barrow, Alaska

2 seen flying over the ridge plot on the west shore of Ikroavik.

14 June - 1 seen along the west shore of Ikroavik

22 June - 1 seen flying over the plot on the west shore of Ikroavik

30 June - 1 seen flying over the plot at Ikroavik

12 July 1 - seen flying along the east shore of Ikroavik

14 July 1 seen flying along ookpik slough <sup>inlet</sup> (3rd inlet on west shore of Ikroavik).

24 July - Numerous terns were seen on Deodman's Island (east of the Pass). Only 2 or 3 nests were found with eggs, but 16 chicks were seen, & 12 of them were banded. The nests are simply a depression in the sand among the driftwood. The eggs are dark greenish with dark brown or black spots.

26 July - 3 seen hovering over the inlet near the waiyag at Ikroavik.

31 July - Several seen from the boat as we proceeded east to Fyfe Island, but none were found nesting there.



Holmes, R.  
1960

Sterna paradisica

2.

3 Aug Barrow = So. Barrow 3, Alaska

A pair seen in the large marsh,  
1 mi N of So. Barrow 3.

6 Aug Barrow = Ikroavik, Alaska

1 seen at the mouth of the  
river - into Ikroavik.

16 Aug Barrow = Cape Lisburne, Alaska

Many seen along the gravel bars  
between Reed Bay & Liz A.

18 Aug Barrow, Alaska

Numerous Ad's + juveniles seen  
near the shore at the village +  
nose









Holmes, R.  
1962

Sterna paradisica

8 June Barrow, Alaska

1 Bird seen flying along coast - just W. of  
camp; 2 seen along the west shore of  
Ikroavik

16 June 3 on ponds near Elson Lagoon

20 June Pair seen NW of Wainyana at Ikroavik -  
1 seen to settle into a nest on a small  
island, (3x2') covered with tall grass (3-6")  
in a lake 60x30' in area. The birds were  
quite active in bombarding us w/ a nearly  
snowy squall

5 July One at Ikroavik Pt 8

9 July Several seen - nests at south end of  
Ikroavik. - also other flocks along the shore.

25 July 50-100 flocks along the shore of Elson Lagoon at  
Brunt Point.



Holmes, R.T.  
1964

Sterna paradisica

25 June Barrow, Alaska

Several scattered feeding birds on inlet to  
Shrond at NW corner & along south  
end.

27 June 1 flying over No. Beach Ridge



Holmes, P.  
1959

*Uria lomvia*

5 July Barrow, Alaska

One dead bird picked up near  
Birnie. Too far gone to be saved.

20 July Barrow, Alaska

14 were found dead along the beach  
between AKC and Nunuk, and  
more were probably present since  
we were not near the water's edge  
all the way out there.





Holmes, R.  
1962

Uria lomvia

25 July Barrow, Alaska

Group of 18 flying behind flock of 50  
leaders - flying north-west along coast  
of Elsie Lagoon near Brant Point.



Holmes, F.  
1959

Cepphus grylle

7 June Barrow, Alaska

One seen on the lead near the Base. It was seen for about ten minutes and then it worked its way to the westward.

100

Holmes, R.  
1962

Lunda cirrhat

30 July Barrow, Alaska

One Adult found dead on the beach  
directly in front of ARL + camp. Bird  
was in good shape - may have been killed  
during the storm Friday (?). - specimen  
prepared by Hines.



Holmes, R.  
1959

Nyctea scandiaca

12 June Barrow, Alaska

One pair was seen so. of the village. The ♂ was extremely white and matched the snow color very well. The ♀ had some dusky color in her body feathers ~~back~~ <sup>feathers</sup> a little darker <sup>in</sup> the wings. The ♀ was ~~not~~ sitting on the tundra and flew off upon our approach.

15 June Barrow, Alaska.

A ♂ was seen about 100 yards E. of the gas well road on the southern shore of the saltwater lagoon. It was sitting on a mound and flew off when the wheel approached within 30 yards. No ♀ could be seen.

17 June Barrow, Alaska

One seen w. of Voth's Area sitting on a small mound. No activity was observed.

19 June Barrow, Alaska

One ♂ seen just so. of the beach ridge sitting on the ice of central <sup>(Meadow Lake)</sup> marsh. After several minutes it flew toward the east along the edge of the marsh.

23 June Barrow, Alaska

Two birds seen along beach ridge about one mile east of gas line.

24 June, Barrow, Alaska

One male seen flying over the beach ridge in the region of the gas line and settled on the ice on meadow lobe. It was chased by several shorebirds on its path over the ridge.

28 June. Barrow, Alaska

One seen along the beach ridge near the gas line crossing. It flew off towards the east.

1 July. Barrow, Alaska and Wainwright, Alaska

7-8 seen near Wainwright and the associated decline station. The associated decline station. Several others noted between Barrow and Wainwright.

5 July. Barrow, Alaska

One seen on the beach ridge in the vicinity of the herd census plot.

8 July. Barrow, Alaska

Three seen in and near Voth's area. Two were females which were seen to fight (by P. H. H.). The third bird, a male, was seen sitting. This bird was also molting.



Holmes, R.  
1959

*Nyctea scandiaca*

3

10 July Barrow, Alaska

Two seen in Voth's Area both during the morning and in the late evening. One seen on the beach ridge during the afternoon.

12 July Barrow, Alaska

Two birds were still present in Voth's Area

13 July Barrow, Alaska

One male was seen on the beach ridge near the beveridge antennae.

15 July Barrow, Alaska

Four pairs were seen between A.R.L. and Ikroavik Lake. One in Voth's Area, one at the north end of Footprint Lake, one at the S.E. end of " " Lake, and one about a mile S of Footprint along the ridge. These were all noticed/paired, but no sign of breeding was noted. It seems that during windy periods these birds will sit on the side of a mound so as to get out of the wind.

16 July Barrow, Alaska

A male was seen on the beach ridge just S.E. of A.A.C.S. Two pairs were noted on the S.E. end of the beach ridge, near Wohlseh's Slough and near the S.E. end of the slough.



Holmes, R.  
1959

*Nyctea scandiaca*

H.

Barrow, Alaska

18 July One seen in North's Area and one was noted just no. of Footprint Lake. They were both sitting on the mounds with no apparent activity.

20 July Barrow, Alaska

Several were noted between Ikroavik and Elson Lagoon during the day by Lowell Douglas, Rex Pieper, and Arnold Schuch.

22 July Barrow, Alaska

One seen just No. of Ikroavik Lake near the Brandt West.

23 July Barrow, Alaska

One noted at S. end of Footprint Lake and one at North end and two in North's Area. The one at the North end of the lake was sitting on a slanting pole which rose about 10 feet off the ground. The female near the North Area was also atop a short pole which made her 15 feet off the ground. Her mate? was about 20 yards away, sitting on a cross bar of a telephone pole. This is the first time that I have seen these birds using artificial perches. No feeding activity was seen.



Holmes, R.  
1959

*Nyctea scandiaca*

5.

24 July Barrow, Alaska

Two seen So. of Voth's Area on R.  
ridge just east of Voth's Slang L.

25 July Barrow  $\rightleftharpoons$  Wainwright, Alaska

On the trip down 8 owls were seen  
with Pieper, Schultz & myself  
all drawing. About half of these  
were within 5 miles of Wainwright.  
Two were seen behind the village  
during the afternoon. On the  
return trip about 15 were seen  
and these were widely scattered;  
probably about 3 or 4 miles apart.  
Only one pair was noted. There  
was no noticeable concentration  
present near Wainwright. According  
to Brewer, the owls must have  
nested near the Wainwright POW  
Station because one of the men  
has a young bird as a pet. The nation  
and school teacher at the village  
did not know of any nesting  
activity.

28 July Barrow  $\rightleftharpoons$  Pitt Point, Alaska

Two owls were seen on this flight.  
One just about 10 mi. SE of  
Barrow and 1 about 5 mi  
SW of POW at Pitt Point.



Holmes, T  
1959

Nyctea scandiaca

29 July Barrow, Alaska

None seen in Voth's Area or surrounding areas.

30 July Barrow, Alaska

Also, none seen in Voth's Area.

31 July Barrow, Alaska.

None on Voth's Area, but one was seen by Preper on the beach ridge during the morning, and I saw one just W. of Wohlsehlog's Slough during the afternoon.

1 August Barrow, Alaska

One seen just N. of Ikroavik Lake. None others seen.

3 August Barrow = Beechey Point, Alaska

Between Barrow and the Colville Delta only 2 were seen and these were widely separated. However in the 16 mile interval between Point 2 and Beechey Point 14 were noticed. No jaegers were seen, but the owls were plentiful in that area.

7 August Barrow, Alaska.

One was present on the so. end of the Beach Ridge near Wohl. Slough. No others were seen on that side of the gas line. One





Holmes, R.  
1959

*Nyctea scandiaca*

7.

7 August Barrow, Alaska

other individual was present on the north end of footprint lake. Both of these birds were males.

11 August Pitt Point, Alaska

A pair was noted about 1/2 mi E of the base. The men at the POW station have seen them there for "a week or so" and report seeing them hunting over the tundra.

15 August Pitt Point, Alaska

One male was present near the east end of trolley line T4. He flew off over the ridge upon my approach.

18 August Pitt Point, Alaska

One noted near the landing strip at 1100.

19 August Barrow, Alaska

One present on Goshue Ridge, one on Beach Ridge and one in between these two ridges. They could all be seen at the same time and were all molting wing feathers.

21 August Barrow, Alaska

One seen sitting atop a pole near A.A.s. It was a male that apparently was not molting.



Holmes, R.  
1954

Nyctea scandiaca

8,

26 August Barrow, Alaska

One seen on the ridge just east of Ikroavik Lake.

28 August Barrow, Alaska

One female seen half way between Uth's Area + Footprint Lake.

One male seen on the west side of the northern portion of Ft. - Print Lake, and one male observed several hundred yards west of the southern half of the lake. No feeding activity was noted - all were sitting on mounds.

31 August Barrow, Alaska

Two birds (1 ♀, 1 ♂) have been seen consistently in or near Uth's Area for the past three days. They are usually seen sitting on the leeward side of the mounds - apparently to get away from the cold N.E. wind.

2 Sept.

Barrow, Alaska

The two birds have been seen again; both yesterday + today, in Uth's Area. They have not been noted flying. Very few pellets have been found on their mounds.



Holmes, R.  
1959

Nyctea scandiana

5 Sept. Barrow, Alaska

Four birds seen Between Voth's  
Arce and Fortpoint lakes. all  
were sitting on mounds.



Holmes, R.  
1960

Nyctea scandiacæ

1.

28 May Barrow, Alaska

One male seen flying west along the beach ridge (just S. of AACB).

29 May Barrow, Alaska

One was seen near Voth's Area, Footprint Lake or Ikroavik today. 1 pair was noted near the line ridge where a nest was located. It was situated on a low piece of exposed tundra (-this may be relatively high after melt off) several hundred feet below the ridge top. There was no nesting material, only a depression in the tundra where the 7 "dirty" brown eggs were laid. The ♀ showed no signs of aggressiveness, as she flew away before I ever came close to the nest. The ♂ was not seen close to the nest, but was across the meadow lake on a low ridge. Later he was seen to fly back toward the nesting site.

31 May Barrow, Alaska

A pair seen + their nest found near the mouth of Ikroavik Slough. The nest is located approximately 500 yards N of the slough on a very slight mound. At this time, the





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1960

Nyctea scandiacaea

2.

31 May Barrow, Alaska

area surrounding the nest is nearly all covered with snow. Only a small area of tundra is exposed & this is where the eggs have been laid. The nest contained 4 eggs, which are whitish (slightly tinged with dusky or brown).

A male was seen at the very southern end of the bread ridge & even after an hour's wait & searching, no ♀ could be detected. Another male was seen in the morning evening near the north end of the census plot on the ridge & again no female could be located. There could have been the same bird.

1 June Barrow, Alaska

at 0.9 of a mile south of the north end of Ikroavik, a depression was found which had apparently been the beginning of an owl's nest. Around its rim, were 27 dead lemmings (23 Ad. ♂, 2 Juv. ♂, & 2 Ad. ♀) - all were marked by the removal of the right hind foot. A ♂ owl was present in the vicinity, but no ♀ could be seen. I wonder if the ♀ was infertile or if



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1960

Nyctea scandiac

3

1 June Barrow, Alaska

she was killed or ?? . Eight fenths (.8) / a mile further south a pair was seen. When first noticed, they were separated; The male on a mound, the ♀ 300 yds away. The ♀ then assumed the copulatory position (tail up in the air, body in a horizontal position, giving a hunched over appearance). The ♂ flew directly over, copulated, + then flew off. The ♀ went directly to the nest, about 50 yards away + began setting. The nest is located on a small mound, 20 yards above an inlet or trough. The nest was completely surrounded by snow and was located in a deep (5-6") hole. There were 4 eggs.

During the evening one ♂ was seen at the north bank of Wobbl. Slough near Elson Lagoon. This bird is probably the one from the beach ridge. Also one ♀ was seen N of the mouth of Sukpik (400 yds N.) along the shore of the lagoon. The pair at nest #5 could be seen in the distance, while I was watching this lone ♀.

2 June - Nest #4 by Footprint Lake was checked at 0830. It contained eggs and



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1960

Nyctea scandiaca

4.

2 June Barrow, Alaska

was located on a polygon top near the edge of the lake. Nest #7 was then checked and was found to contain 10 eggs. It is located on the edge of village slough (near its south end). Only the ♀ was seen. The mound of lemmings (#10) was checked and no additional lemmings had been added. The ♂ was still present and was performing the dracula display when I first arrived. This took place about 30 yards from the mound on a low polygon top. During the remainder of the time spent in the area, he did not display again. Nest #1 was located & it contained 9 eggs. The pair was present here.

During the evening, we checked #7 & #8. The pair at seven were present & could be seen clearly; since the nest was checked this morning, it was not looked at again. #8 was found and all eggs had been broken. No human footprints or any other footprints were noted. Both birds were present however; and the ♂ was seen doing the dracula display much of the time with



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5

Nyctea scandiaca

2 June Barrow, Alaska

his back toward the ♀. During this period the ♀ was standing not more than 2 feet from the ♂, but he had his wings spread "like a angel" with his back toward her. His tail was kept down at a normal angle & was not cocked.

3 June Barrow, Alaska

One ♂ seen on the south shore of Wohl Slough; this is probably the bear ridge ♂.

5 June Barrow, Alaska → Inarn River, Alaska

Numerous owls & nests<sup>(?)</sup> were found between Barrow & the Inarn River. The nests contained between 3 & 7 eggs, and at least 2 pairs were seen copulating. See Maher's notes for more details on nests, etc. (one nest was found near the Inarn - an area which also showed goose lemming sign.

6 June Barrow, Alaska

Nest #4 contained 7 eggs when checked this afternoon. Nest #1 had 9 eggs. The nest mound (#10) had only 17 dead lemmings, all of which were marked. The ♂ was present and persisted in doing the dracula





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Nyctea scandiaca

6.

6 June Barrow, Alaska

display for considerable lengths of time. Raising one spread back, angel forked, with the digit at the bend of the wing sticking out laterally. The head in forward, and the bill usually has a lemming in it. The tail is spread normally and is not cocked. When first noted, he was in a mound in this position, <sup>slowly</sup> turning around in 360°. This went on for several complete revolutions. Another pair was seen northwest of the goosed, and this nest was located by Maher that afternoon. It contained 8 eggs.

7 June - One ♂ owl was seen along Elson north wobleschlog. This is probably the beach ridge ♂. The pair at the mounted Sokysich was checked, and their nest (45) contained 7 eggs (+ 1 outside). Both birds were present, and the male performed a distraction display by spreading his wings out and flapping them shallowly. This was performed when he was behind a mound, so that I could just see the top of his head & the



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1960

Nyctea scandiaca

7.

7 June Barrow, Alaska

wings flapping. This same display was seen by a ♂ owl near the Inarn. It also stayed behind a mound and just "peeked" over.

8 June Barrow, Alaska

Nest #1 was checked + it contained 7 eggs (2 had been taken by an Arctic Skua). The nest <sup>(#9)</sup> west of Ikroavik contained 8 eggs + both birds were in close attendance. The ♂ <sup>(#10)</sup> with the mound was seen to do the double display, north of the slough (drawing into the lake).

9 June - 1 ♂ seen south of Wohl slough. Another(?)

♂ was seen during the afternoon near the NE end of the tundra along Elson Lagoon. As I was watching him, he flew a short distance away from the mound where he had been sitting and picked up a lemming with his beak. He then transferred it to his feet as he took off and flew SW towards the beach ridge. He landed on the ridge near the exclosures + began to eat the lemming. This is evidently the ♂ which has been seen along the ridge.



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1960

*Nyctea scandiaca*

8.

10 June Barrow, Alaska

1 ♂ seen along the Elson Lagoon, just south of Wohlsehlog Slough. This is presumably the hood ridge ♂. When disturbed it flew out over tundra & sat about 400 yards from shore. Later it flew to the <sup>area</sup> north of the slough.

12 June - Nest #4 checked. It still contains 7 eggs, one of which was beginning to pip. There was 1 ♂ Lemmus lying next to the nest. Nest #8 was checked, and there are now 6 eggs. No lemmings were present. Nest #7 has 10 eggs. No lemmings were here either. ♂ #9 was seen doing the dramatic display about half way between the 2 sloughs on the west shore of Ikroavik. On a mound 20 yards away was a ♀. Several minutes later, both flew off in a northerly direction.

13 June - Male #10 was alone when seen today, and no other birds were seen in that area. He was not displaying.

16 June - Nest #1 was checked, & it contained 1 young. No other eggs were hatching.



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Nyctea scandiaca

9.

21 June Iktroavik (Barrow), Alaska

Pair # ~~9~~<sup>10</sup> seen south of the second inlet with Iktroavik this evening.

22 June - Pair # ~~9~~<sup>10</sup> seen again in the same area. In the evening, the nest was located on a rather prominent mound. It contained 5 eggs. No lemmings were present around the nest. Copulations or droole displays were not seen.

23 June - Nest # ~~10~~ still contained 5 eggs, & both birds were present. An attempt was made to get to nest # ~~9~~. But it was discovered that this nest is located beyond a deep slough (described as an inlet or trough on 1 June - due to snow cover). I was directly across from the nest but could not see into it. Both birds were present, so apparently the nest is still active.

27 June - Barrow, Alaska

Nest #2 was visited. It contained 7 young + 2 eggs. There were several old lemmings around the nest + 4 fresh ones (3 ♂♂, 1 ♀).





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1960

Nyctea scandiaca

10.

27 June Barrow, Alaska

After I arrived + checked the nest, I sat in the blind for 1½ hours. During this time, the ♀ was very cautious + came to the nest about 6 times. Each time she was frightened away either by movements in the blind or jaegers nearby. When she was away from the nest, she would sit on the flat lands below the nest where she was continually bothered by jaegers. Her reaction to this dove bombing was to jump with air + apparently try to get her talons up in the direction of the intruders. In the process of doing this, she would jump about 2-4 feet in the air, bring her feet up, where at the same time, the body would tip (like someone attempting to do a somersault - but not quite making the flip). The ♂ during this time sat calmly along the ridge about 100 yards away. When I first approached the nest, he attempted to do a distraction display by flapping his wings wildly and making a low grunting call.



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1960

11.

Nyctea scandiaca

29 June Barrow - Ikroavik, Alaska

In the morning, owl nests 3 + 2 were visited for the purpose of weighing the young. Nest #3 contained 7 young in various stages of development (see Pitelka's Notes for weights). Both the ♂ + ♀ were present; neither bird made any attempt to defend the nest. Both remained within 100-150 yards, and during the time we were there, they were harassed constantly by jaegers. The defensive position against these jaegers was as described earlier (the owls attempting to raise their talons for protection & in doing so - jumped into the air). When the owls were flying, the jaegers would often dive-bomb them, and several times it appeared that actual physical contact was made between the jaeger & the owls (especially the ♀). This nest (#3) was fenced, so that the young owls would not wander away. Nest #2 contained 7 young and 2 eggs, one of which was pipping. These birds were a little more aggressive. The ♂ made several attempts at dive-bombing us whenever we were at the nest. The ♀ even made one feeble



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Nyctea scandiaca

12.

29 June Barrow-Ikroavik, Alaska

attempt by flying over low. The ♂ performed a distraction display several times. Usually it consisted of him standing along the edge of the old lake bed or up among the polygons + flapping his wings rather erratically with the wings occasionally being held in the horizontal plane with the tips dropped, and the tail cocked. Once while he was at the edge of the marsh he assumed this position with wings spread out and tail cocked and head forward. In this position he moved slowly over the ground and as he did so he teetered back and forth. The usual calls given during these periods of disturbance are usually various grunts, occasional deep hoots, and while in the air, bill clacking is quite common. It might also be mentioned that this bill clacking is also done by the <sup>older</sup> young in the nests when they are disturbed. On the way to the wanaga in the



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1960

Nyctea scandiaca

13.

29 June Ikroavik-Barrow, Alaska

evening, we stopped at owl nest #4 at the side of Footprint Lake. The nest contained 2 young which were only partially grown (both were banded - so they were probably between 500 - 700 gms in weight). There were no other signs of the remainder of the clutch. No egg shells were present nor signs of dead young. The area was searched for 30 yards in all directions, and no young were found. The nest was located on a mound where there were 2 old fox traps. Many feathers were scattered about; and several old? eggshells which appeared to be jaeger eggs were present 2 feet from the nest. Both adult birds were present. 1 ♂ lemming was at the edge of the nest. There were no signs of human visitation to the nest, so what ever happened (?) to the young may have been from natural causes. Of course it is possible that they were still present in the area & just couldn't be found. Owl nest #10 was checked, & it still contained





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14.

Nyctea scandiaca

29 June Barrow - Ikroavik, Alaska

5 eggs. There was 1 ♀ lemming at the nest. Also on the way south, a lone ♂ was seen at the NW corner of Salt Lagoon in the gravel area just after the junction of the gas well road & the village road. (A bird was seen here in the evening on 26 June also). When he flushed as we went by, he moved further south along the lagoon & then flew out over the lagoon ice. At that time a 2nd ♂ was seen further down the shore, sitting on a drum. He also flushed as we came near & flew towards Voth's Area. These are probably non-nesting birds.

30 June Ikroavik, Alaska

Owl nest #9 was checked in the late evening. There are two young (which were weighed - 97g + 52g). There are still 6 remaining eggs. Both adults were in attendance.

2 July - Nest #10 still has 5 eggs. Nest #9 still has 2 young, which were weighed this evening. Nest #1 was checked for the first time in a couple



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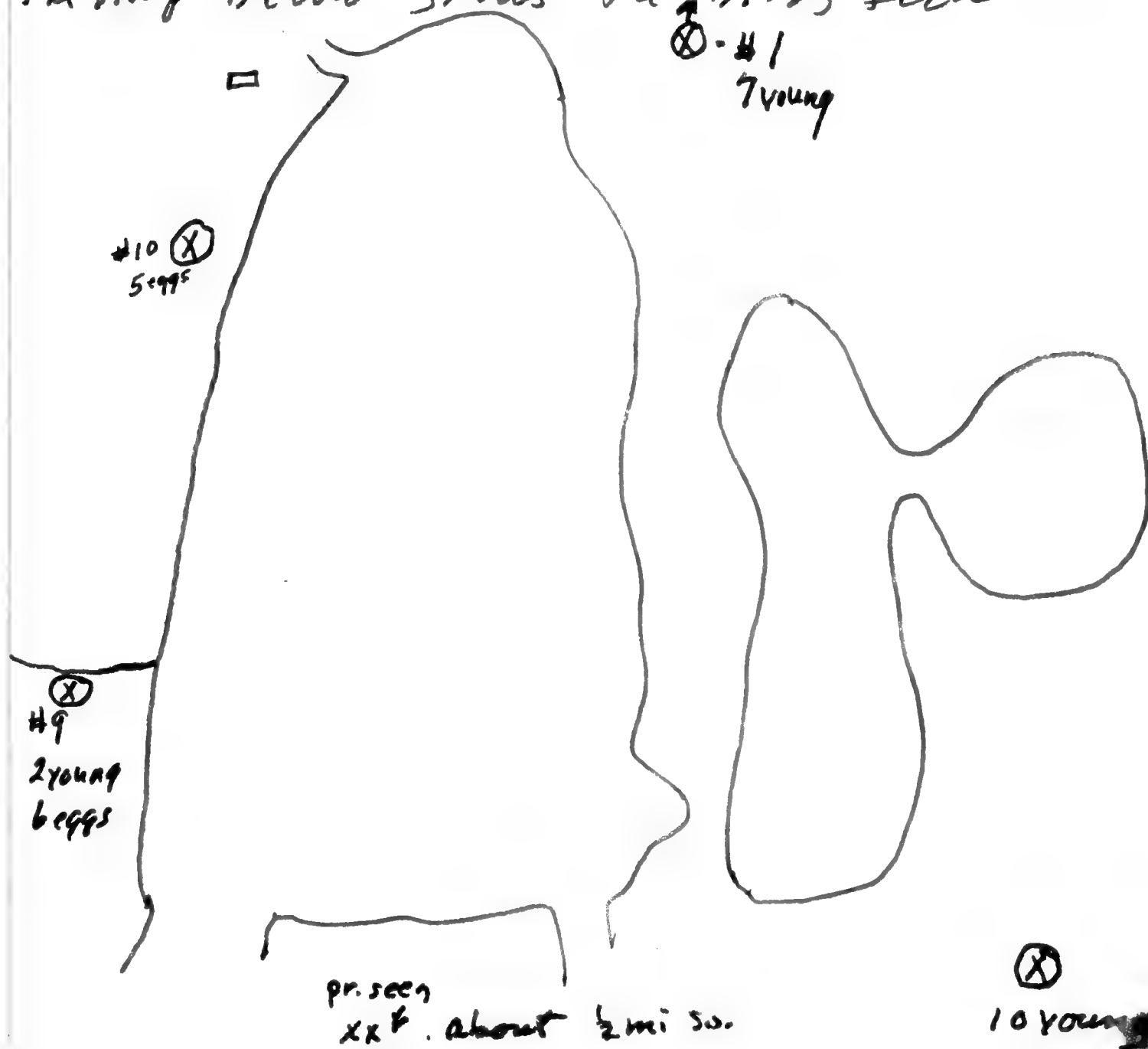
Nyctea scandiaca

15.

2 July Ikroavik, Alaska

11 weeks. It contained 5 large young + 2 small ones (1 just out of the egg). This completes the clutch. Now that the snow has melted, it was found that this nest is on top of a high isolated polygon (8x8' - separated by deep troughs from the other polygons). There were 48 + 32 lemmings at the nest. All were fairly fresh.

3 July - A trip was made around the lake today. The map below shows the birds seen.





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*Nyctea scandiaca*

16.

3 July Iktroavik, Alaska

The nest south of Loom Lake contained 10 young, 2 of which were quite young. 4 of the young were banded. There were 16 lemmings at the nest (10 ♂♂, 6 ♀♀). Nest #1 was visited again, & 4 of the young were banded.

4 July - Nest #9 was checked & the 2 young were weighed. Nest #10 still contains 5 eggs.

8 July - Owl nest #9 still has only 2 young. They were weighed this evening. #10 still has 5 eggs.

10 July - Both nests were the same as before.

13 July Barrow, Alaska

Owl nest #2 was visited for picture taking & pellet collecting. The ♂ did quite a distraction display by spreading his wings out horizontally & moving over the ground slowly in a flicking motion. Occasionally he would raise his wings & put them back in a vertical position - similar to the dracula display. At the same time the head went forward & the resemblance to the dracula display was amazing. Movies were taken by Maher & myself, and there show the



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1960

*Nyctea scandiacea*

17.

13 July Barrow, Alaska

postures quite well (I hope!!). Saw nest #12 was checked + a blivet was set up near the nest. Nest #2 was then checked to clarify the positions of nests in this area. It was located + the young were quite well grown. 5 young were banded. (See Maker's note for more details on #1 young, etc.). See below/

14 July Ikroavik, Alaska

One egg in owl nest #10 was just starting to pip this morning. The 2 young were weighed at nest #9; the other eggs (5 - 1 had disappeared) are apparently infertile. The pr. o/ows near Britton's Area have disappeared. The nest (#1) South Footprint was visited, and it was found that the young were fairly well dispersed. There were 2 in the nest + only 3 other could be located. Bands were placed on those present (some partial had lost bands -)

13 July Barrow, Alaska

at owl nest #6, a brant's nest with 5 young was found just 35 feet from the owl mound





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1960

Nyctea scandiaca

18.

13 July Barrow, Alaska

When 1st discovered, the lost young  
had just dried off, and while  
we were there the velvet brant  
led the group off. See Brant note.

14 July Iktroavik, Alaska

Two chicks were still in nest  
#9. They were weighed this morning  
before I returned to Barrow.  
In nest #10, 1 egg was starting  
to pip.

17 July Barrow - Iktroavik, Alaska

Nest #7 was again checked & the chicks  
were weighed & banded. Aulavik  
#10 contained 2 young, 1 pipping egg,  
and 2 eggs. The young were weighed.  
During the evening, I sat in the  
blind at nest #12. During the  
2 1/2 hours that I was there, the ♂  
came in once & brought a  
dumpling. He then began to  
feed it eggs & gave more  
chances to the chicks. Most of the  
time, the ♂ seemed to just sit  
& feed the young. The ♀ would  
attempt to cover the young with  
her wings in order to give them  
protection.



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1960

Nyctea scandiacia

19.

17 July Barrow - Ikroavik, Alaska

Owl nest #9 mentioned previously  
had 2 ♂ lemmings at the edge. #10  
had 1 ♂ lemming. Nest #5 was  
checked at the mouth of Ootpiik  
slough. I banded 5 young, and  
there was 1 more that was too  
young. (Total of 6 young present).  
The adults were not aggressive.  
Both the ♂ & ♀ did a distraction  
display. The ♀'s consisted of  
spreading her wings, herintact  
& weaving back & forth slightly.  
Occasionally she would make a  
hissing note.

19 July Barrow, Alaska

The pair was present near the barrel  
pile on the west shore of Salt  
Lagoon. The mounds that they have  
been using for perching are covered  
with feathers. Another lone ♂  
was seen just west of Voth's marsh.  
The 2 nests along Village Slough  
were checked today. These (#7  
and 8) were empty with no  
sign of the young or adults  
present. Evidently they have been  
found by the eskimoes who then



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Nyctea scandiaca

20

19 July Barrow, Alaska

proceeded to destroy the nests.

21 July Iktroavik, Alaska

Nest #9 was empty, but the young (2) were about 30 yards away to the south. They were swept again. The eggs taken from this nest on the 17th were definitely infertile (infertile rotten). Nest #10 contained 4 young + 1 egg which was just beginning to pip.

23 July Barrow = Meade River, Alaska

Several birds seen north of the Inarn, but none below it. The natives at ~~Wanavik~~ Meade River say that there were very few around that area this year + that none nested. (They also said there were no St. eared Gulls - but we did find a nest).

26 July Barrow, Alaska

Nest #1 was checked + several of the young were found + banded applied to those which had not been banded previously. The nest south of Loon was checked, + the young had moved several hundred yards away, but all 10 were



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Nyctea scandiacica

21.

26 July Barrow = Ikroavik

There, and bands were applied. Both Ads were present, but they did not become too excited or riled.

(The same at nest #1). At nest #9, both Ads were present + 1 chick was seen, but we did not stop to check on the other one. The young at nest #10 were weighed, and the youngest one was brought back into the lab by Reynolds. The nest did not have any lemmings around it. During the past week, there have been 3 owls present in the fence just west of salt (furnish) house.

At the owl nest so. of Loon Lake, the wings of a ♀ Stellar Eider were found - indicate that she had been preyed upon + fed to the young.

A week ago, Maher found the wings of a ♂ King Eider at an owl nest near the base. Now that the young are nearly grown (some are beginning to fly), the food requirement is extremely high.





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Nyctea

scandiacae

22.

27 July Barrow, Alaska

Owl nests #1 + 3 were visited, & both were deserted. The young at #2 were still present nearly & four were crested. Two at this nest were found dead in the enclosure. This may have been due to their not being able to join the rest of the chicks away from the nest & were therefore ignored by the adults. Nests #11 + 12 were also visited, and the chicks banded. At both of these nests, the chicks had left the nest mound & were found wandering over the tundra.

29 July - Two of the young of nest #3 were seen flying just south of the beach ridge near the postline.

2 August - Two flying chicks seen on the line plot on the Beach Ridge near the gas line. These were from Nest #3. In the afternoon, 1 molting bird was seen on the west shore of salt lagoon.

3 August Barrow = So. Barrow 3, Alaska

During a trip to So. Barrow 3, as many owl nests as possible were located, and the chicks present were banded. The following notes were taken during



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Nyctea scandiaca

23

3 August Barrow = So. Barrow 3, Alaska

The course of the journey. The nests were numbered as they were encountered. Only brief description of location will be given here - the maps in Makey's

Notes give the more precise locale.

Nest #13. - located just SE of Dry Lake & just NE of Loon Lake. Three young were present in the nest - 2 were banded. No others were seen.

There were present at the nest the wings of a Old Squaw (sex?) and also the head of a ♂ Steller's Eider - both apparent prey items of the owls.

Nest #14. - found about a mile ESE of Loon Lake. The nest cup was not seen - but there were 5 young, two of which were flying. Three were banded.

Nest #15. - located about 2 miles No. of So. Barrow 3 (along the W. edge of the large marsh). 5 young were found & banded, and in addition to them, there were the remains of 1 chick in the nest (eaten by others?). One adult jaeger carcass was also found near the nest.



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Nyctea scandiaca

24

3 August Barrow = So. Barrow 3, Alaska

Nest #16. found NW of So. Barrow 3.

5 young were seen; 2 were banded.

One dead + <sup>mostly eaten</sup> joeger chick was found nearby

Nest #17. located ENE of So. Barrow 3 (just N. of the small creek). Five chicks were seen; 3 flying - 2 banded.

Nest #18. - located NE of 17 - along side on the lake (see map). - 6 young were seen + all were banded. None were flying yet.

Nest #19. Located <sup>1 mi</sup> SE of Antler Lake. Five young seen; 4 banded; 1 flying

Nest #20. - located on the SE shore of Antler Lake - 5 young found; 5 banded

Nest #21. located NNW of Antler Lake near a small pond. 6 young seen; 5 banded; 1 flying.

Both adults were present at all of the above nests. None of the ♂♂ attempted to dive-bomb us, and no distraction display was noted. As mentioned above, most of the young were found away from the nest site - Consequently, few of the nest mounts



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1960

Nyctea scandiaca

25.

3 August Barrow = Sr. Barrow 3, Alaska

were visited. In certain ones however, the parts of a ♂ Stellar's Eider, Old Squon, an Adult Pomarine Jaeger, & 1 jaeger chick were found. Evidently, predation on birds is occurring even during a lemming high year.

6 August Barrow = Ikroavik, Alaska

Nest #10 at Ikroavik was checked today. The four young were still present; the two older had moved about 25 feet from the nest. These chicks were weighed. Both adults were present.

8 August Barrow, Alaska

Three young seen on the beach ridge near the gas line. I presume they were all from Nest #3.

11 Aug - One flying juvenile seen near Britton's Area. There appeared to be an aluminum band on his left leg - but no color band was seen. (It may have been there however - since I was not able to get very close).





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1960

Nyctea scandiaca

26.

15 Aug Iktroavik, Alaska

The juveniles at nest #10 have moved about 350 yards south of the nest - along the ridge. Both adults are still in attendance. One chick (the youngest) was found dead near the nest. The weights are recorded on the int - record sheet.

16 Aug Barrow = Cape Lisburne, Alaska

An occasional scattered owl was seen between here & Wainwright but they were by far nowhere common. None were seen west of Wainwright.

20 Aug Barrow, Alaska

Two juveniles (flying, but still with down) seen along the west shore of Family logom. Bands could not be seen.

21 Aug The young were weighed at nest #10. Only 2 of the 3 could be found (the oldest & the youngest). The adults were still in attendance.

27 Aug Barrow = Pitt Point, Alaska

Owls seen frequently between Barrow & Admiralty Bay. This included several family groups. Beyond the Bay, only 1 - 2 were seen.



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Nyctea scandiaca

27/

28 Aug Barrow, Alaska

A dead juvenile (with band No 509-29660 [+A blue color band - both on the right? leg) was found near Trapline XIII (10' away). This is apparently 1 of the juv's from nest #2. About 30 feet from this bird, we found the remains of a juvenile jaeger. There were several pieces of wings; bones, 1 foot, etc.. Near the chick, there was a large pellet (Adult?) which contained a jaeger foot. It seems probable that the family group from nest #2 had moved through this area, & had killed a jaeger chick (probably not quite flying) and had eaten it there. An adult jaeger may have killed one of the owl chicks.

30 Aug A repeat of the above incident was discovered about 700 yards NE of the trapline in the fertilize plots. The owl was also banded, & there were the remains of a dead jaeger chick.



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Nyctea scandiaca

28.

2 Sept Barrow, Alaska

1 bird, apparently a juvenile, seen along the beach ridge near the beverage antennae.

3 Sept

1 Juvenile and 1 molting Adult ♀ (quite "dirty" in coloration) were present along Voth Creek. No bands could be seen. At Ikroavik, the family of owls (pr #10) were still present about 250 yards south of the nest site. The adults were still there, and the three chicks were flying.



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Nyctea scandiaca

Nest #10

Ikravik, Alaska

	<u>R - rt.</u>	<u>R - mid</u>	<u>L - left</u>	<u>L - mid</u>
7-17 (1600)	62g	44g		
7-21 (1200)	156g	121g	40g	73g
7-26 (1600)	409g	318g 872	73g	220g
8-6 (1200)	1053g	<del>872</del> g	364g dead wt. - 434g	778g
8-15 (1300)	1526g	1491g		1136g
8-21 (1400)	1665g	not found	—	1228g
9-3	flying	flying		flying





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1960

Nyctea scandiaca  
Nest #9

Iktroavik, Alaska

	<u>R-Rt</u>	<u>R-mid. ~ H</u>
6-30 (2200)	97g.	56g.
7-2 (2000)	136g	87g
7-4 (1200)	199g	123g
7-8 (2400)	402g	319g
7-10 (2000)	549g	434g
7-14 (1100)	733g	667g
7-17 (1600)	940g	906g
7-21 (1200)	1115	1065g



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1961

Nyctea scandiaca

4 June Barrow, Alaska

1 ♀ seen sitting on small mound, south of Voth's area. No activity noted. No pellets were found on mound. Pete Savolike reports several owls south of the village (where the children are also catching lemmings - 100 in about 4 days).

7 June - 1 ♂ seen on the hills, just so. of the village.

9 June 1 ♀ seen flying west across the south end of the beach ridge & then across central marsh.

10 June 1 ♀ seen near the beverage antennae, N. of Voth's slough.

10 June 1 ♂ seen flying west along the beach ridge near the gasoline

11 June 1 ♂ seen flying south along the B. Ridge - along Pitelka's Plots.

17 June - 1 ♂ seen along the B.R. - near gasoline.

11 July 1 ♂ seen on the ridge behind (N.) the insect plot.

13 July above bird seen sitting again in the same general area.

21 July 1 ♂ seen at the south-west end of Voth's Slough. - Most likely, same individual as above.

23 July 1 ♀ seen just so. of Voth's slough.

7 Aug 1 seen so. of Oakey's Slough.

14 Aug 1 seen near the fertility plots.



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1962

Nyctea scandiaca

28 May Barrow, Alaska

Cade observed a pair in the drum area behind APL + a pair on the west side of Footprint Lake on 26 May.

This evening, a pair was noted west of Footprint + just south + west of Voth's Slough. The ♂ was seen flying - suddenly landed near the ♀ who was sitting on the snow at the edge of a 2x2' exposed polygon top. The ♂ then mounted the ♀ + remained there for about 30 sec. - then flew off to the so. The ♀ remained sitting until I flushed her. There was no sign of a nest on any of the exposed mounds in the vicinity.

30 May 1 ♂ seen s. of the village along the creek which drains into village slough. No ♀ could be found in the area.

another bird - believed to be a ♂, was seen sitting in the telephone pole - between Oak + Briar's area.

2 June 1 seen in drum area

3 June 1 ♂ in Elsa-oohpuk Slough; 1 ♂ at the N.W. end of Footprint Lake

4 June 1 ♂ - on Voth's Area - several reported from drum area by Muller



Holmes, R.  
1962

Nyctea scandiacea

5 June Barrow, Alaska

1 ♂ seen flying near Voth area.

6 June 1 ♂ along Ullagss Slough south of the village. ; 1 ♀ on immatures to mi S. of Voth area - 1 No. / Footprint Lake.

7 June 1 ♂ along white mounds Sutor & B. Ridge ; 1 ♀ on P. Atkes's Plot - 1 ♀ at the mouth of Oolupik Slough (may have been same bird as on P. Atkes's Plot ?).

8 June 9 snows over sections in snow drifts along Voth Road - 1/2 way to Voth area. Flew to top of telephone pole nearby.

10 June 1 ♀ in Voth Area. ; 1 ♂ near barrel ridge in the evening. A pair noted at the curve of the barrel ridge. Another single seen near the gas-line crossing of the ridge - which had 1 or 2 primaries missing from both wings.

14 June 4 - 20 ♂ ; 2 ♀♀ on barrel ridge near gas line ; 1 near Oolupik Slough - 3 near South end of Dry Lake ; 1 No. end of Ikroovel ; 1 on west side of Footprint Lake. No evidence of nesting yet.

15 June Eight seen looking S. & West from white-mound section of B. R.

20 June Eight ovals counted from the waning - mostly along the north-west shore of Ikroovel Lake.

21 June 3 ovals on high pole - along W. side of Footprint Lake.





Holmes, R.  
1962

Nyctea scandiaca

23 June Barrow, Alaska

3-4 on Bear ridge near gasoline + 2  
near N. end of Pitelka's plot.

24 June 4 sitting around N. + W. end of Ikroavik;  
5 more along the W. + S. end of Footprint  
lake. 8 were seen between the N. end of  
Footprint + Uot Area.

29 June 6 seen from insect plots (Uot → Footprint → Village  
Slough localities) - 2 on bear ridge. Number  
seemed to have decreased from a week ago.

1 July 16 individuals seen between Uot Area +  
the North end of Ikroavik. all scattered  
out; none in nests.

5 July 4 seen along N. shore of Ikroavik - 3  
on shore of Footprint - numbers are down.

7 July 2 N. of Uot Area

8 July 2 owls near Footprint lake (west shore) +  
1 north of the wamp at Ikroavik

9 July 2 on census plot - 2 at south end of  
lake (Ikroavik) + 18 seen between the  
ootepik slough + central marsh. - Nearly all  
were seen on or behind mounds.

12 July 2 on Ikroavik census plot - 2 on N. shore of  
Ikroavik. Three along south end of  
Footprint - None seen farther north.

14 July 1 Owl seen between BR-Elson Lagoon - Wohl-  
bley Slough - Central Marsh + Bear  
Ridge area - It was near Elson + Wohl.



Holmes, R.  
1962

Nyctea scandiaca

16 July Barrow, Alaska

One - the census plot at Ikroavak. 1 at  
the south end of Footprint + 1 on  
Vok -

18 July 1 ♀ on B.R. - 1 ♂ on North stand Woblesch  
near end of D.R. - 1 at mouth of  
Woblesch + 1 near Curlew Sog  
area (1/2 way between Brant Point  
+ Woblesch).

25 July None seen along Beach Ridge or near  
Elson Lagoon.

30 July 2 on east side of Devel Ridge - near south  
end.

1 Aug 6 seen between Vok Area + So. Footprint lake -  
2 more near census plot. This is quite  
an increase over the last two weeks -  
when very few have been seen.

6 Aug One on Devel Ridge near garden + on  
a garden ridge.

12 Aug One west of Vok Area + one just N. of  
Footprint lake.

13 Aug One - garden ridge.

15 Aug 1 near Vok - 1 on west shore of Footprint -  
1 on south shore of Footprint - 1 on  
North shore of Ikroavak - 1 on garden R.,  
1 on beach ridge near garden + 1  
a high prob. at SACS.



Holmes, R.  
1962

Nyctea scandiaca

17 Aug Barrow, Alaska

One ♂ near Insect plots + 1 ♀ or immature  
in Britton's Area.

18 Aug 2 on Beach Ridge - gasoline crossing

21 Aug 1 on Beach Ridge - near gasline - 1 on east end of  
gasline ridge - 1 SW of Insect Plot + 1 SE of  
Insect Plot - 1 NE of Insect Plot - 1 just  
south of Woblesley across from the end of the  
Beach Ridge + 1 at ASOS. They seem to  
be scattered out - but are more numerous  
than they were during late July + early  
August.

23 Aug 8 seen between Voth Area + Ikroavut - all  
spread out. - no young - 1 yr-olds were  
noted.

25 Aug 2 ows between Wohl. + Ootjipik Sloops +  
2 near the gasline + 1 on Gasline Ridge.



Holmes, R.  
1963

Nyctea scandiaca

27 May Barrow, Alaska

One adult ♂ seen sitting on a mound at the south end of the beach ridge near Wohlshley Slough. It moved off to the south on our approach.

28 May - One seen flying south along Voth Creek (east of Cape-entr). - ♂

In evening - a ♂ was seen flying east of B.R. + N.E. of Wohlshley Slough. The flight was performed with a full stroke to the vertical + then back to 20-30° to the surface. These strokes were performed deliberately + <sup>this</sup> was obviously a display flight. The wing beat cadence was 2/sec - each upward stroke going to within 10° of vertical + the downstroke one ending just below the horizontal. After about 1/2 min, the bird landed on a 60 x 30' patch of open tundra + began the "dracula" display with head stretched forward, wings raised + held in the manner of angel's wings. - see 1960 notes. The distance was too far + there were too many heat waves to see if he was holding a lemming in his beak. No other bird was seen. After about 3 min, the bird flew off, giving the display flight - latched across (so.) Wohlshley Slough + again did the dracula display - This time there was definitely no lemming in its beak - yet he continued to rotate on the mound with wings back + head forward - sometimes again - landed - resumed gd. display





Holmes, R.  
1963

Nyctea scandiaca

2.

29 May Barrow, Alaska

One ♀ or 'imm' ♂ (dark gray <sup>brn</sup> splotches  
scapulars, coverts + breast - not spotted  
like imm + ♀♀) - on the shore of EIS lagoon -  
half way between Wohl + Brant Pt.

In evening - no ♂ seen at south end  
of beach ridge - but the ♀ was seen in  
the same area described above. A few  
minutes later, A male flew south along  
the bluff along EIS - passed near  
the sitting ♀ + kept going toward the  
beach ridge.

30 May A ♀ near Umanua, a ♂ 1/4 mi west of  
Umanua (just w. of Oak Slough) + a ♀  
near gasoline on the beach ridge

31 May One ♀ along EIS lagoon, South of Brant Point -  
where she was seen 2 days ago. 1 ♂  
200 yds south of Oak pit Slough.

2 June On trip to Anali Gale - south ridge  
Slough - Ikrook census plot, south  
end of Ikrook - Dry Lake - Ooligik  
Slough census plot + Central marsh  
during afternoon - NO birds were seen.  
All areas were scanned carefully.  
On our return on the beach ridge,  
one ♂ was sitting near the  
beverage umbrellas on the south side  
of the ridge.



Holmes, R.  
1963

Nyctea scandiaca

3

2 June Barrow, Alaska

Also, Arch, Crane, worker at gas well,  
has not seen owls at all this

Spring

4 June A ♂ at south end of beach ridge  
near Wohlschlag

6 June 1 ♂ on mound ~~at~~ north end  
of footprint lake. None seen between  
Voth Tree & Village Slough - nor on  
gasline or beach ridges.

South end of beach ridge & large  
mounds across Wohlschlag Slough  
- 1 ♂ down drainage ditches for 10  
minutes - with drumming, in brief -  
turning in half circle - around. A ♀  
was about 10 yards away on  
mound. Aft 10 min - he flew to  
his mound, landed 3' away - drummed.  
Went into drainage ditches. but  
she kept looking straight ahead -  
no att'n directed to ♂. Aft about 2  
minutes, he flew back to his perch &  
again went into drainage ditches -

7 June 2 ♂ on south side of Wohlschlag -  
halfway between end of b.r. &  
Hoon Lozon. A pair seen by J. Brown &  
crew near Dr. Hen's Ave. Only 1 ♂  
seen there in the evening.



Holmes, R.  
1963.

Nyctea scandiaca

8 June Barrow, Alaska

One ♂ on west side of Village Slough - NNE at Britta - on both sides - on Knoll Ridge. Two (♀ + ♂) on mound at north end / Ikroavik - fog was so thick I couldn't follow them for any distance - they will be worth checking again.

Elsin Lagoon - No. with. - 1 ♂ sitting on whole vertebra, just so. / Bont Pt. - 1 ♀ on mound, 200 yds north of center of cliff site.

Polar bear ridge - ♂ at southern near Woblesley; ♀ on Pitelch plot near Woblesley mound

9 June Pr - west of tree lot + drum area. Pr mpolygas near Line 9 + 10 - (AALS) + - ♀ on bear ridge near tree plot - ♂ on bear ridge near Magnetic Station.

♂ at mound / Ookpik; ♂ + ♀ on gulline ridge.

10 June ♀ in Voth Area; ♂ on west shore of Voth area - near end of Family Lagoon. In evening, a pair along Elsin<sup>No. with.</sup> a pair then whole. near Su and / B.R. + a pair - Pitelch plot.

11 June ♀ near AALS, ♂ - B.R. - near Bev. antennae + ♂ - west of gulline ridge.

♂ - west of Village Slough; ♀ N + 10 Voth Area - along Voth creek



Holmes, R.  
1963

Nyctea scandiaca

5.

12 June Barron, Alaska

1 ♂ on high polygons south / float plane lake; 1 ♀  
near Elson Removal Plot.

2 birds (♂ + ♀) near Tegelmann F + 10; at  
2 others (♂ + ♀) on beaver ridge - near  
Beverage antennas

- 3 seen before Barron + Skull Cliff.

15 June - 2 ♂♂ in Ikroavik census plot, 3  
scattered along north + east shore of  
Ikroavik.

17 June - 3 in census plot at Ikroavik - all appeared  
to be ♂♂. Two - 1 ♂ - 1 ♀ on high  
polygons north of Ikroavik, 1 ♀ on  
beaver ridge. 1 ♂ on plot area -  
1 ♂ on Beverage antennas - beaver  
ridge. 1 ♂ + 1 ♀ in south end /  
beaver ridge + south shore of Wohlshlog  
flu. - 2 ♂♂ along Elson Removal Plot. No  
breeding activity

20 June None in census - out area. - None on North  
beaver Ridge. N. overdone lake - ARCS.

21 June - 3 birds (2 ♂♂, 1 ♀) - Ikroavik census plot -  
These were the only ones seen today.

23 June - 1 ♀ sitting + poles near Vok - also 2 ♀♀

25 June 1 ♂ on north end of Ikroavik plot.

26 June 1 ♀ on Elson bluff, 1 ♂ on north shore of  
Wohlshlog - south end of beaver  
ridge. 1 seen near Vok - on Tegelmann poles





RTT  
1963

Nyctea scandiaca

29 June Barrow, Alaska

None - census plot - but one along north shore of Ikroavil + one just north of both areas - on power pole. The number of owls has decreased markedly, - the last week.

3 July 1 at north end of Ikroavil - one on each side of Ikroavil - 1 along both areas.

4 July 1 in high ptzye - SW of Trepeline ~~at~~ B.

7 July 1 owl seen near Ikroavil census plot - only one all day

9 July 1 owl seen NE of Ikroavil census plot - no other

12 July 1 adult ♂ in both areas.

13 July 1 " " still. " " + 1 near the the Ikroavil roannija - no other seen.

14 July 1 owl - south end of beach ridge near Cook's side

16 July 1 ♂ near insect plots. none on beach ridge no gasoline ridge

17 July 1 owl on census plot - no other seen.

19 July 1 ♂ on gasoline ridge, 1 in both areas, 1 near insect plots.

20 July 1 ♂ on Ikroavil census plot - 1 on ridge west of south end of Footprint lobe.

21 July 1 ♂ on south end of beach ridge.

23 July 1 ♂ at north end of Footprint + 1 on Ikroavil plot.



RTW  
1963

Nyctea scandiaca

24 July Barrow, Alaska

One ♂ on south end / beach ridge  
near Wohlshlag & one near  
Insect area - near south.

25 July 2 near north end / Throane plot - both  
apparently ♂♂. One dirty individual  
on large black mound at south  
end / central marsh.

26 July Two owls along the bluff / Oohpit  
slough.

28 July One ♂ with south Footprint (obs), 2  
near north end / census plot.

5 Aug 2 near mouth / Oohpit slough.

6 Aug 1 N. / Ikroon lake - 2 on census plot.

12 Aug Traveled to Oohpit + Wohlshlag Slough -  
Saw 1 owl near ~~both~~ Oohpit -  
no others. None have been seen  
in the last few days.

15 Aug 2 Ad east / fertilizing plots.

18 Aug 1 ♂ south / gasline ridge

20 Aug 1 Ad ♂ on south side / Oohpit slough.

25 Aug 1 ♂ south / gasline ridge.



Holmes, R.T.  
1964

Nyctea scandiaca

4 June Barrow, Alaska

1♂ sitting on Polygus near Tropicana IX - 1.  
1 on Pitelka's Plot, 1 at south end of beach ridge.  
and appeared to be 0♂♂.

5 June 1 ♀ on Voth's area; 1 ♂ west of monument plots.

None seen in afternoon in the south beach ridge area.

8 June None seen in the last 3 days.

9 June 1♂ at south end of beach ridge.

13 June 1♂ on Voth's bluff in late evening

15 June At least 3 on mound 50 + east of gasline ridge.

18 June 2 seen south + east of gasline ridge - 1 on beach ridge near garbage.

19 June 1 on beach ridge near 4 drums. - 1 ♂ west of monument area.

20 June 1 on beach ridge (Pitelka's Plot) - + 1 on line plot (near garbage)

25 June Two along census plot; 2-3 others between 25.0 + south end of Ikroavut; 3-4 along E + NE sides of Ikroavut; One was always in sight. 1 North 1 Footprint.

30 June 1 ♀ or juv - N. end of Pitelka's Plot - 1 ♂ south of Wohlseh's house.



Holmes, R.  
1959

Asio flammeus

5 June. Barrow, Alaska

Two seen near the barrel area. One was sitting on the ground and the other was flying when first noticed. Later both flew off in a westerly direction.

12 June Barrow, Alaska

One seen flying to the east over the dump area. It was flying a direct course about 75 feet above the ground. One also seen near Britton's Area at 1315. A pair was noted flying past N. of Voth's Area at 1615. They were flying high, but were making large circles and not moving in any one direction.

13 June Barrow, Alaska

One seen flying west over the beach ridge. Another seen flying over the dump area.

14 June Barrow, Alaska

One seen sitting on tundra along the gas well road near Britton's area. It flushed as the observer came within 50 yards.

15 June Barrow, Alaska

A pair was seen about 400 yards So.





Holmes, R.  
1959

2.

Asio flammeus

15 June Barrow, Alaska

of the drum area. One bird of the pair was seen to chase off a Pomarine Jaeger when the jaeger approached too close.

It chased it for several hundred yards before returning to its original resting site.

17 June Barrow, Alaska

One seen in the drum area and then it was quickly chased out by a pair of jaegers (Pomarine).

18 June Barrow, Alaska

A pair was seen in the drum area where the jaegers had been yesterday.

19 June Barrow, Alaska

One seen flying over the beach ridge during the morning.

23 June Barrow, Alaska

One bird seen just west of the drum area. It was flushed from the ground.

25 June Barrow, Alaska

One seen near AACS buildings and one flew over the rest-census area during the afternoon.

30 June Barrow, Alaska

One seen just S. of the drum area near AACS



Holmes, R.  
1959

# Asio flammeus

6 July Barrow, Alaska

One seen at the south end of the drum area among the drums.

10 July Barrow, Alaska

One seen in south end of drum area.

15 July Barrow, Alaska

Two seen near the S.E. end of Footprint Lake.

18 July Barrow, Alaska

One seen again near the S.E. end of Footprint Lake.

It was being chased by 2 Pomarine jaegers which quickly gave up the chase.

25 July Wainwright, Alaska

One seen near the cliffs just NE of the village.



Holmes, R.  
1960

*Asio flammeus*

1 June Barrow, Alaska

Two seen along the shore of Eleno Lagoon.

5 June - Barrow → Innam River → Barrow, Alaska

Several seen just south of the village & occasionally along the route back.

In one place near the river the aerial display was observed. This is where the bird flies to a height of 50-60 feet & then places his wings ventrally & flaps them together 3 or 4 times. By this time, the bird has lost elevation, so that he has to flap normally to regain altitude. The display may then be repeated.

9 June Barrow, Alaska

One seen on the N. portion of the beach ridge near the beverage antennae. He was seen to catch a lemming, and it then took him 12 minutes to devour it.

20 June - 1 seen near the gas line along the beach ridge. It was flying high & was being harassed by a pair of jaegers.

27 June - 1 seen at the south end of the drum area, being harassed by jaegers.



Holmes, R.  
1966

*Asio flammeus*

2.

8 July Barrow, Alaska

Maker & I visited the nest found by Warner yesterday(?). It is located west of the pipeline - opposite A.A.C.S. The nest is located on the top of a low, high-centered polygon and also a crack on the top of this structure.

There are 4 eggs, which are smaller than chicken eggs & are more glossy. There was no definite nest material.

18 July - The above nest has been checked by Maker & Warner during the last few days. Today, however, it had two eggs which were small <sup>jaegers</sup> (1/4" diameter). The third egg was white; the 4<sup>th</sup> was not around to be seen.

23 July Meade River, Alaska

A nest was found near the coal mine. It was located about 50 yards away from the bluff overlooking the river. The nest was among the foot grass & consisted of some matted down grass & numerous feathers. There were 6 young, one of which wasn't over 2-3 days old. Only one adult was present near the





Holmes, R.  
1960

Asio flammeus

2.

23 July Moose River, Alaska  
nest, but another was  
seen about a mile inland  
(whether this bird belonged to  
the nest or not - I do not know).  
The eskimos at the village  
said they had seen no "brown"  
gulls this year.

28 July Barrow, Alaska

One seen near ATCS in the evening

25 Aug One seen east of the Beach Ridge  
It was flying, rather erratically



Holmes, R.  
1962

Asio flammeus

17 June Barrow, Alaska

One hunting south of central marsh. One  
reported by Hines - near Voth Area.







Holmes, R.  
1962

Petrochelidon pyrrhonota

30 May BARROW, ALASKA

One individual seen several times  
1/4 mi east of Volk's area - flying back  
& forth over an exposed "grassy" field.  
The bird would have been collected but  
I was distracted by a displaying  
E. ruficollis.

Cade ~~also~~ thought he also saw this  
species near camp (outside airolog) today.  
(species?)





Holmes, R  
1960

Hirundo rustica

7 July Barrow, Alaska

One seen flying along the west  
shore of Freshwater Lake. The bird  
was collected.



Holmes, R.  
1962

Oenanthe oenanthe

28 May Barrow, Alaska

2 ♂♂ (I believe) seen NE of Voth's area on the high ground west of Family Lagoon. Neither would allow close approach. One finally flew off to the East; the second was collected.

30 May - 1 seen by Cade in the drum area.

1 June - Mueller collected one in the drum area & I saw one in Britton's area during the afternoon.



Holmes, R.  
1959

Sialia currucoides

4 June Barrow, Alaska.

One ♀ seen at The Base<sup>at 2030.</sup> It was seeking shelter behind the quonset huts and would not fly until the observer approached within 5 feet. At 2200, it was still present but could not be found at 2230.



Holmes, R.  
1963

Hylæcichla minima

5 June Barrow, Alaska

1 collected near Brunt Point feeding  
on small patches of snow-free tundra.





Holmes, R.  
1959

Motacilla flava

4 June Umiat, Alaska

2 seen near landing strip. The yellow on the under parts is not always conspicuous, but the flip of the tail is very diagnostic.

11 June Barrow, Alaska

One seen just ~~E.~~ of the drum area. It was quite active and flew several times to various exposed areas of tundra during the several minutes it was observed.

10 August Umiat, Alaska

One seen near the airstrip.



Holmes, R.  
1962

*Motacilla flava*

10 June Barrow, Alaska

One collected in Voth's Area - 1 mi or /  
the coast! Another individual was seen  
on the tundra - near the corner of Elson +  
Wobbeslog.



Holmes, R.  
1961

Anthus spinoletta

6 June Barrow, Alaska

1 pipit seen along the old-tom of  
Jundra (weasel tracks) - between Voth's  
& Britton's area. A collection attempt  
failed. The bird was feeding in  
the turned up soil & along the pond  
margins.



Holmes, R.  
1962

Anthus spinoletta

7 June Barrow, Alaska

1 individual collected half way  
between Volk's & Britton's houses.  
It was giving a high thin call note -  
sit-sit-sit.....





Holmes, R.  
1959

Spizella arborea

8 June Barrow, Alaska.

One individual singing just  
So. of Barrow Village.

10 August Umiat, Alaska.

4 seen near the airstrip.



Holmes, R.  
1963

Spirzella arborea

1 June Barrow, Alaska

1 seen on phyton near Elm (Larrea  
spp. deserti, etc) - singing on phyton  
zee-zee-zee-zee-zit-zee - - - - - \



Holmes, R.  
1959

Passerculus sandwichensis

5 June Barrow, Alaska

One seen onundra near Base  
at 1330.



Holmes, R.  
1960

Passerculus sandwichensis

10 June Barrow, Alaska

One heard by Maher near the lab  
and one seen by me along Elsa  
Lagoon, south of Wobbschlog Slough  
during the evening.





Holmes, R.  
1962

Passerela sandwichensis

9 June Barrow, Alaska

3 individuals (or at least 3 sept-tiny) were  
seen between Britton's Area + Barne ridge -  
1 was collected ; one had been heard singing.



Holmes, R.  
1959

Calcarius lapponicus

5 June Barrow, Alaska

1030. - 20-35 were present in the Narvik Area. None were singing.  
1900. Several seen in the drum area behind the base. At this time the males were performing their flight song or several were seen <sup>doing this</sup> during the hour spent in observation. They would fly to a height of 50-75 feet and then glide to earth on outstretched wings and at the same time uttering a trinkling song.

6 June Barrow, Alaska

0800-0900. Several seen in Drum Area going through their flight song. Others were noted feeding and showing no interest in breeding activities.

1100-1200. Several in the Voth Area and adjacent tundra.

7 June Barrow, Alaska

1100-1200. - many present in the drum area. No songs were heard. Also many present in the same area at 1800.

8 June Barrow Alaska



Holmes, R.  
1959

2.

Calcarinus lapponicus

8 June. Barrow, Alaska

Many seen in the area so. of Barrow village which has been cleared of snow. Also several were noted on the return trip (inland). These birds were singles or pairs in habitat in small exposed areas.

9 June Barrow, Alaska

There are still 20 to 30 birds in the drum-lined area, but now they are beginning their territorial defense. The ♂♂ are seen in combat both on the ground and in the air. The territorial boundaries do not seem to be established yet, but within a general area, the "resident" male becomes excited when intruded upon. The defending male stays on the ground (at first), stretches out its neck, and stands ready for the intruder which flies up to the male and is prevented from landing by the actions of the defender. After this intruder has hovered for several seconds while being attacked from below, it attempts to fly several feet away.



Holmes, R.  
1959

Calcarius lapponicus

3

9 June Barrow, Alaska

and land. When this happened, the defender took flight and chased the other bird over the tundra for about 2 min. This flight-chase was noted in several areas. It consisted of the 2 birds often flying straight up in the air for ~15 feet while "belly to belly" and then tumbling together back to within a foot or 2 of the ground. It appeared that actual contact was made between the two by both the bill + feet. The whole array of events was accompanied by a chatter from both birds.

1400-1630. - 15-30 seen in <sup>+ near</sup> the North Area. Two birds, 1♂, 1♀ were seen in an aggressive outburst as they roared back & forth over the tundra, then several feet into the air, tumbled to the ground and then the ♂ performed the mating display accompanied by a high shrill whistle (F.A.P.). Copulation then took place. Some of the birds appeared to be paired.





Holmes, R.  
1959

*Calcarius lapponicus*

4.

9 June Barrow, Alaska

and others not. The condition of the gonads of 7 birds collected showed no difference when compared to those of several days ago (all <sup>ova</sup> around 2 mm in diameter).

10 June Barrow, Alaska

The ♀♀ seemed more abundant than previously, and the males were seen frequently giving through their aerial song-"display". The fight-chase between 2 males was only seen once.

11 June Barrow, Alaska.

The birds seem to be paired now with very few individuals seen. They are often seen in their chases over the snow where the ♂ may be chasing the ♀ or 2 ♂♂ will be chasing each other. During the "chase", there may be actual contact between the two birds. One ♀ which was collected had an ova which was just about ready to descend, so  $\therefore$  laying would have been within a day or two.

13 June Barrow, Alaska

One ♀ collected which had laid one egg and had a second <sup>one</sup> in the oviduct. The birds appear to be very secretive and are very



Holmes, R.  
1959

*Calcarius Laponicus*

5

13 June Barrow, Alaska

hard to spot once they land on a patch of tundra.

14 June Barrow, Alaska

Several males were seen going through their aerial displays, despite the S.W. wind. One nest was found in a crevice formed by the cracking of the mud. The nest was made of dried grasses woven together into a small cup-shaped nest - about 2" across. There were a few feathers in the bottom of it and 1 egg. The egg was brown with blackish mottlings.

15 June Barrow, Alaska

1400. The nest described above was checked and found to contain 2 eggs. Many of the pairs seem to be nesting now. The males are still going through their flight displays, and the females are remaining rather secretive. 2200. The nest was checked again and contained two eggs still.

17 June Barrow, Alaska

The above-mentioned nest in the down area now contains 4 eggs (at 1110).



Holmes, R.  
1959

Calcaris lapponicus

6.

18 June Barrow, Alaska

The nest in the drum area contained 5 eggs at 1000. Very little activity was noted however, several males were giving through their aerial displays.

19 June Barrow, Alaska.

Several pairs seen along the beach ridge and between there and the A.M. The aerial displays are still being carried on. According to the specimens collected by J.A.P. Some females are almost through with egg-laying while others have laid only one or two eggs.

20 June Barrow, Alaska

One nest containing 5 eggs was found on the beach ridge. The female was collected and contained one egg in the oviduct.

21 June Barrow, Alaska

The first nest found in the drum area still contains 5 eggs and the female is setting. Another nest was found further so. in the Drum Area and contained 4 eggs. Aerial displays and occas. chasing are still seen throughout the tundra.

22 June Barrow, Alaska

The nests described above all have



Holmes, R.  
1959

*Calcarinus lapponicus*

7.

23 June Barrow, Alaska

The same number of eggs. Some of the male longspurs are now seen in small flocks, so apparently these are non-breeding birds & the territoriality has begun to break up. The aerial displays are seen infrequently.

28 June Barrow, Alaska

The nests checked today all contained the same no. as the last reported date. Two new ones were found near trap line II on gasline ridge. One contained 5 eggs; 1 had four eggs. Some males are still displaying, others seem to be found in groups of 2 or 3 with very little chasing.

30 June Barrow, Alaska

The first nest discovered in the tundra in the drum area now has 3 young birds and 2 eggs (at 1600).

3 July Barrow, Alaska

The first nest in the drum area now contained 5 young<sup>at 0900</sup>. The second nest had 4 young. The males seem to be flocking together more than before. A group of 6-8 are now being seen.





Holmes, R.  
1959

*Calcarius lapponicus*

8.

3 July Barrow, Alaska

Two nests were also located along the beach ridge east of the beverage antennae. One contained four newly hatched young, and the other had five.

6 July Barrow, Alaska

Many birds were seen today in the vicinity of A.A.C.S.. Both males and females were present, but the males were more numerous. Birds of both sexes were molting. No flight songs were heard.

7 July Barrow, Alaska

One flight song was heard just north of the trap line IV on the beach ridge. The bird was not seen, but the song was clearly heard. Pitelko reports that he has seen one or two birds giving their flight song in the same vicinity yesterday and today. The males seem to have lost their territoriality for bands of 4-6 are often seen together. When there are encounters, however, they will utter a sharp alarm note and appear to scold the intruder as if there



Holmes, R.  
1959

*Calcarius lapponicus*

9.

7 July Barrow, Alaska

was a nest nearby and he was trying to warm his mate. Pairs are occasionally seen feeding together.

13 July Barrow, Alaska

During the last week, longspurs have been fairly common, particularly males. No young birds have been seen on the tundra which seems unusual since the nests have been hatching during this time. Females are seen occasionally, sometimes in small groups. Very few mixed (♂-♀) groups were noted.

15 July Barrow, Alaska.

One immature seen near the South-end / Footprint Lake. Since the cover is poor this year (due to an extremely wet year in '58 - thereby having very little growth), possibly predation may be the cause for the number of immatures seen.

20 July Barrow, Alaska.

During the last four days, several trips have been made to Footprint Lake, A.A.C.S., and the Beach Ridge. Over these trips, no young longspurs were seen. In fact, longspurs as a whole were scarce. On 16 July, 2 longspurs were caught in the traps, but there have



Holmes, R.  
1959

*Calcarius lapponicus*

10.

20 July Barrow, Alaska

been none in the traps since that date.  
Hardly any are seen on the tundra.

23 July Barrow, Alaska

There still seems to be <sup>very</sup> few of these birds on the tundra. A bird is seen here or there but then only occasionally. No young birds have been seen the last few days.

25 July Wainwright, Alaska

Several young birds were noted near the village; however they were not very common.

28 July Pitt Point, Alaska

Several present and scattered out on the tundra. No young birds were noted.

3 July Barrow, Alaska

Very few of these birds are now seen; scattered individuals are occasionally encountered. The birds have nearly completed their post nuptial molt and have a brown wash over the head, which makes the males look very similar to the females.

2 August Barrow, Alaska

Several seen in both areas. Mostly males.



Holmes, R.  
1959

Calcaricus Lappronicus

11.

4 August Barrow, Alaska

Several seen on Voth's Ave and flat country to the south. Two were caught in the traps, and there were nearing completion of the molt.

7 August Barrow, Alaska

Flocks of 20-30 were noted both in the Olsen Lagoon area & in the Fortfront Lake vicinity. There were seen on the mud flats on the open tundra. Apparently they were moving (although the movement was not in one direction).

11 August Pitt Point, Alaska

Many present. Flocks of 15-20 are present all over the tundra. All the birds recovered in traps this morning seemed to have completed their body and tail molt.

12 August Pitt Point, Alaska

These flocks are still present and the birds seem to be the commonest ones present.

14 August Pitt Point, Alaska

Due to the heavy winds during the past two days, the numbers of longspurs seen seems to have diminished. This may be due to only a suppression of them





Holmes, R.  
1959

12.

*Calcarius lapponicus*

14 August Pitt Point, Alaska

activities and therefore are not seen as often. Fewer were caught in the traps, also.

16 August Pitt Point, Alaska

A few of these birds were noted today, but not like they were seen the first day or two. Also fewer were caught on the trap lines during the last 4 days.

19 August Barrow, Alaska

These birds are present in small numbers. They seem to be scattered over the tundra; no concentrations have been seen.

21 August Barrow, Alaska

A few small groups seen - the bottom of Footprint Lake. These were feeding among the drier areas of the lake bottom (among the mosses, etc.). Very few were seen on the tundra.

24 August Barrow, Alaska

Very few longspurs have been noted in the Central Marsh - Beach Ridge area. Occasionally a group of 2 or 3 will be encountered, and also individuals are seen



Holmes, R.  
1959

*Calcarius lapponicus*

13

24 August Barrow, Alaska

irregularly

26 August Barrow, Alaska

Little bird activity was again observed in the Central Marsh area. Very few have been caught in the trap lines here.

28 August Barrow, Alaska

6 seen in Footprint Lake and 2 on the area of high polygons to the west of the lake. None seen in both areas.

1 September Barrow, Alaska

None have been seen during the past three days, and none have been caught in the trap lines.

3 September Barrow, Alaska

None have been seen during the last two days.



Holmes, R.  
1966

Calcarius lapponicus

28 May Barrow, Alaska

These birds were common over the tundra (where it was exposed). The flight song was <sup>heard</sup> (given) several times during the afternoon & evening.

30 May Barrow, Alaska

Wherever there was a large patch of exposed tundra, there are at least 1 pair of these longspurs. Several times during the evening, territorial conflicts were noted & chasing usually ensued. Males were seen displaying frequently.

1 June Barrow, Alaska

Much chasing by ♂ was noted. Territorial disputes were seen in several areas of largely exposed tundra. This combat consisted of a chase by the settled ♂; no physical contact was observed.

10 June Barrow, Alaska

The number of birds present seen relatively low. The males are vigorously defending their territory, but ♀s seem to be scarce.

17 June Barrow, Alaska

A nest located in the drum area with 5 eggs. It was situated in a crack in one of the high polygons. The



Holmes, R.  
1960

Calcanus lapponicus

2.

17 June Barrow, Alaska

I became very excited and gave a sharp, shrill note as she tilted back & forth. She also did a disturbance display where she lowered her wings which were spread out horizontally & lowered & spread her rectrices. The wings were then quivered as she hopped about, excitedly. The number of longspurs seems low this year, and only a few nests have been found this year by anyone.

18 June - A flock of 40 or so seen feeding on the beach ridge

23 June Ikeravik (Barrow), Alaska

There appears to be about 3 pair on the plot (40 acres).

Only 1 ♂ was heard displaying.

29 June - A nest found just west of the Butler building containing 6 young, which are nearly fledged.

2 July - a few pairs are still seen on plot but aerial display has completely stopped. Also single ♂ or one often seen & sometimes 2-3 may be feeding together.

7 July Barrow, Alaska

Several broods & young were seen today.





Holmes, R.  
1968

Calcarinus lapponicus

3.

7 July Barrow, Alaska

most were in the vicinity of the dump area.

18 July - Longspurs are now seen only occasionally and most of these are juveniles or molting adults.

23 July Meade River, Alaska

Numerous longspurs were present around the village + fence at the coal mine. The majority were ♀♀ + young, but a few molting ♂♂ were also present.

26 July Barrow, Alaska

Longspurs are fairly rare around here now. They are seen only occasionally.

29 July - Several ♀♀ + immatures were noted in the drier portions of Central Marsh. Most of these were feeding in the old cat tracks + ruts.

2 August - Many were noted today on the floor of Footprint Lake. There appeared to be ♀♀, juveniles + molting ♂♂ present. All were feeding among the grasses. Estimate - No.  $\frac{1}{2}$  of F.T. Point - 200+ longspurs.



Holmes, R.  
1960

Calcarius lapponicus

4.

3 August Barrow = So. Barrow 3, Alaska

Numerous birds were again seen in Footprint Lake. Others were also seen in Dry Lake, but very few were actually present on the tundra - where only an occasional bird was noted. One albinus (Imm.) bird was collected South of Loon Lake (see Make - for specimen data).

15 Aug Barrow, Alaska

During the past week, occasional birds have been observed on the tundra. Several were caught on the Bear Ridge in the traps.

25 Aug - Very few are now seen, occasionally one will be caught in the traps.

30 Aug - a few scattered individuals seen today below Central Marsh



Holmes, R.  
1961

Calcarius lapponicus

3 June Barrow, Alaska

Longspur again numerous. ♂♂ are singing everywhere. Pairing does not seem to be complete, since chases involving 3 or 4 birds are occasionally seen (i.e. 2 ♂♂ chasing a ♀, etc.), but in many cases a ♂ + ♀ are encountered together with no others nearby.

4 June - Numerous birds seen today. 1 pair was seen copulating (#1086 & #1087). The ♂ stood on the ♀ with his wings held back & out, i.e. like dracula display / the owl. His head was held high & apparent. His wings were used in balance.

7 June Longspur seen abundant near Voth's areas. Pairs are generally settled, but a flock of 6-8 ♂♂ was observed in 1 location. They were not chased by a paired ♂ nearby, but they may have been off the territory..

10 June 1 nest found near Voth's area - with 5 eggs. Another nest found, just S. of Br. Hn's area with 4 eggs.

17 June Above nests are still intact - with the same complement of eggs. ♂♂ are continuing to display; ♀ are mostly incubating.

20 June Another nest with 6 eggs in same rough off ground, half way to the new airport site (in Voth's area) - along the road.



Holmes, R.  
1960

Calcarius lapponicus

- 24 June Barrow, Alaska  
a nest was found in the wooded edge of a polygon, south of Wobb. slough. 4 eggs + ♀ was incubating. ♂♂ singing is starting to drop off; only occas. songs were heard today.
- 4 July a few seen in the B.R. census plot, but no young or nests found. The numbers here seem to be lower than last year, but were relatively good. Two fledglings seen flying near Cook Road. The nest near the N. end of the road - from a June 1 - failed - destroyed? - seen. The one in Wobbel track just west of the road. The nest near the aerial tower was destroyed by A.F. Workers.
- 7 July Flying young seen No. 1 both areas - little activity.
- 15 July Very little activity has been noted. Occas. Adults are seen, including ♂♂ in seemingly good plumage. No bob-tailed young have been noted recently, and birds generally appear to be scarce.
- 24 July None seen - the No. 20 acres of the B.R. plot during the afternoon.
- 26 July - Small groups of 2-4 seen between Footprint & Ikroavik & again near the wanigan.





Holmes, R.  
1961

Calcaricus lapponicus

2 Aug Barrow, Alaska

a small group of 8-10 seen near the  
Wanga at Ikroavik. - appeared to be  
all juv.

9 Aug Sev. seen between camp + Perusiet  
plots.

11 Aug Quite a number (30+) seen near  
the cockpit census plot.

18 Aug Longspurs seen quite common on  
the tundra with individuals -  
small groups of 3-5 seen  
fairly regularly.



Holmes, R.  
1962

Colaptes auratus

28 May Barrow, Alaska

Flocks of 12♂♂: 1♀; 6♂♂; 22♂♂; 3♀♀ + 15♂♂  
seen on the open areas near Voth +  
Denali ridge. Two or three single  
birds were also noted and several  
aerial displays were <sup>being</sup> performed - the birds  
in full song.

29 May - 10♂♂: 1♀ near Elson-Wohlschlag - sev. indiv.  
♂♂ along the beach ridge - seemed to be  
spaced out. - 2 seen with ♀♀ - as if paired.  
Several individuals seen so. of Wohl. Slope  
+ north of Oskvik. Small flock of 6 near  
Voth Area.

30 May - Much singing today - in marshy areas -  
the tundra - longspur could be heard.  
W. flock seen today - only pairs + indiv.  
♂♂. One combat was seen between  
2 ♂♂ - females / chased the other off.

1 June Small flocks seen along Elson bluffs -  
+ numerous scattered individual ♂♂  
+ pairs. Several ♂-♂ encounters  
were noted where the two birds would  
chase each other around and the  
tundra + occasionally coming into physical  
contact with each other - in quite aggressive  
maneuvers.

2 June Numerous pairs + individuals seen. Several  
♂-♂ chases - near displays



Holmes, R.  
1962

Calcarius lapponicus

2

3 June Barrow, Alaska

Pairs + individuals seen along Elson Lagoon  
+ at scattered places of vegetation  
on the beach ridge + near Voth area.

4 June - ♂ seen with 10-15 pieces of grass in its  
bill (cross-wise) - he lifted them ~~and~~ few in  
turn + <sup>then</sup> toward his head - finally settling  
them down + flying off. He & his mate  
standing - less than 6' away - but apparently  
paying no attention. - courtship? - no nest  
or nest cup was found in the vicinity.

5 June Another ♂ seen with a dozen pieces of  
vegetation - 2-3" long - held cross-wise  
in his bill - he was among other  
♂♂ - a flock - he & was nearby. He  
would raise them up - head high +  
then lower them to the ground - then  
repeat a 3-4 times - before he dropped  
them + flew off.

9 June No flocks have been seen for several days -  
occasional ♂ to ♂ conflict are noted.  
Most birds are seen in pairs + there is still  
much singing going on.

Nest located SW of Britton's Area (75' east of  
south salt lagoon + 100 yds W. of Voth road - (in line  
with Kauff's flagged stake) - now with an oak  
stake - 6' to the east. This nest contained  
5 eggs at 1400. + was located on the south



Holmes, R.  
1962

*Calcarius lapponicus*

3.

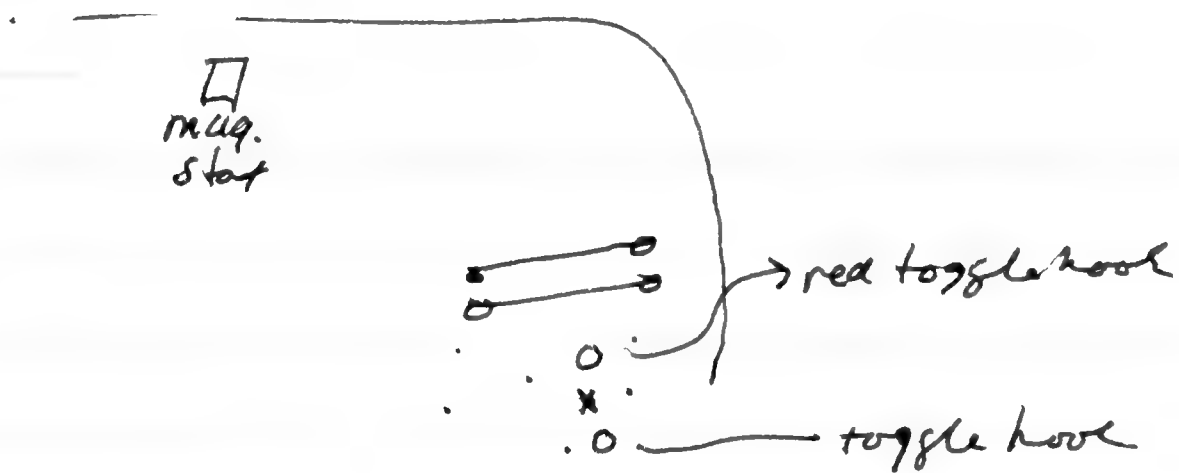
9 June Barrow, Alaska

side (just below the edge) of a relatively low polygon.

A second nest was found on the ~~North~~ side of barrel ridge - 100' west of U.S. road + 200' north of the row of barrels - stone at 8' to the east) - on west side of medium-sized polygon - contained 6 eggs with ♀ incubating at 1500.

13 June Another nest in Britton's Area - 300' west of road - 100' N. of Polar in Britton's Area - 6 eggs. Previous nest in Britton's Area - still has 5 eggs.

16 June 2 nests reported by McNamara - 1 near stake line on corner of B.R. - with 5 eggs + 1 stone!



Another - 100 yards away -

20 June ~~700~~ <sup>500</sup> nests located census plot see census sheet  
21 June ~~700~~ <sup>500</sup> " " " " " " " " " " " "

Birds generally scarce or at least not displaying - due to storm wind





Holmes, R.  
1962

Calcarius lapponicus

24 June

Barrow, Alaska

Nests on the plot were all active - ♀♀ were incubating. Another nest found - set into a moss cup - with 5 eggs. Several displays <sup>(singing)</sup> seen & heard today - but chasing was not observed.

26 June

3 Longspur nests

1) in Curlew Sca. area. 1 B.R. - 2 eggs + 4 young

2) " " " " " " " " - 3 young

3) 30' - N. of P.A. - moss plot - 5 3-4 day old

28 June

Nest close to Britton's Area - 5 almost fluffy young - 1 starting to leave nest. In VOR Area nest again contained well feathered chicks. Flocks of 6 ♂♂ seen near VOR Area.

29 June

Nest in VOR Area with young.

2 July

All nest - plot with young - one nest has disappeared entirely.

9 July

Flufflings are seen frequently now.

12 July

Flocks of molting adults + young birds are now encountered on the tundra.

1 Aug

During the last week - small groups of <sup>(3-15)</sup> molting adults &/or juveniles have been noted at various places around the Barrow area.

6 Aug

Large number - in groups of 10-30 seen flying back & forth across the tundra both in ridge & in wet marsh areas.



Holmes, R.  
1962

Calcarius lapponicus

17 Aug Barrow, Alaska

Small flocks of 10-15 encountered frequently  
in the tundra - dwarf - Vrk marsh  
areas. Most of these are molted adults  
& immatures & 60 percent be moving,  
or not settled

22 Aug The large flocks are no longer seen - only  
small groups of 1-4 birds - scattered  
but over the tundra.



Holmes, R  
1963

Calcarius lapponicus

27 May Barrow, Alaska

Lagsspar were scattered over the open tundra - mostly in singles ( $\sigma$ ) or in pairs ( $\sigma + \text{f}$ ). Two chase between males were noted. Several advertisement songs were heard. Activity was light.

28 May - Frequent in the drum area & near J. A. Not much singing going on - but several  $\sigma$  or chase have been noted.

30 May Still the most abundant bird on the tundra but singing is not yet intense. Occasional chases are seen - (between 2  $\sigma$ ).

2 June - The most common bird on all open patches / ex. tundra visited today on trip to Ikroavut - most birds associated as pairs.

7 June Nest building by  $\text{f}$  - carrying feathers to nest under overhanging moss clump on low flat-top polygon - E. side - high p. Copulations seen several times during the day.

8 June Nest with 5 eggs + sitting  $\text{f}$  on side of mound 16' off cakeater Road near Trapline III A+B.

12 June Nest with 6 eggs + inc.  $\text{f}$  - on Removal Plot (E. side) - on west side of mound - with overhanging piece of sod.



RT4

1963

Calcarius lapponica

17 June Barrow, Alaska

Numerous in shrub areas plot but due to numerous sandpiper activity these were less than not counted. One nest broken near 4.1 - with 6 eggs + inc. ♀. - Nest located inside ball of moss - which had been hollowed out - probably by a lemming.

26 June Nest near Eakel Road - found a ♂ juv - is now gone - it seems failed - young have fledged? - saved (2-4) ♂♂ are now seen together - seem feeding or hanging around a ♀.

29 June Nests & plot were intact - ~~but~~ 1 with ~~young~~ eggs: 1 nest had been destroyed - since the whole nest was overturned & laying saved where away from where the nest had been - jaegers? 1 flying fledgling seen near 1 footprint lake.

3 July CRNEI - 2011 brought in 1 fledgling - seen four near Wohl's old sloop - it was not flying yet.

5 July Nests - B. Ridge areas plot checked - most were empty - 1 catenated young - see census sheets. Snow did not seem to do much harm.





Holmes  
1963

Calcarius lapponicus

24 July Barrow, Alaska

Hatching dates for nests -  
census plots - are a census re-  
sheets.

All birds have been fledged now  
for two weeks or more. Adults are  
molting & staying on the ground,  
fragments among the tall grasses.

4 Aug Flocks 15-30 seen near census plots -  
moving across island for dinner.

9 Aug large flocks 15-30 along beach ridge -  
feeding in upland habitat.

18 Aug. Small flocks of adult & juv. in tundra  
mostly upland.



Holmes, R.T.  
1964

Calceus lapponeus

4 June Barrow, Alaska

Several pairs noted in the drum area - very little aerial activity.

8 June Copulation noted by pair in Piche's Nest - nest to be fruit label (stage 3 or 4?).

12 June ♀ carrying nest material - No b. ridge

13 June Nest with 4 eggs on B.R. - Boxes sound of 4 birds.  
- Expanded - 100% open - before severe frost Miss.  
lichen hummocks.

14 June Above nest with 5 eggs today.

18 June Nest - NBE. near fallen block box - 5 eggs  
" " - near beaver antenna - 6 eggs

20 June Nest - " - west of beaver - 5 eggs

24 June Nest on b.r. near 4 drums (see 13 June) - gone -  
no sign of adult - inc. 4 + eggs were present  
two days ago. Maybe predated by  
wandering Tundra jaeger.

26 June Nest with 3 eggs on b.r. - nest, near beaver antenna.



Holmes, R.  
1959

Plectrophenax nivalis

4 June Barrow, Alaska

This bird was noted frequently among the buildings and road areas. It was not seen back along the ridge.

5 June Barrow, Alaska

Several seen chasing each other and uttering a guttural note. Also the males are seen sitting atop a pole, snow bank or a building and singing a bubbling-type song. Copulation was seen twice (in 2 different pairs). At 1330, one female was seen carrying twigs or pieces of grass. At 1930, the males were seen to fly about 50 feet into the air and then float on outstretched wings for 30-35 feet, and then they would either fly up & repeat the performance again or they would fly to the ground. This is in contrast to the longspurs which normally float all the way to the ground.



Halmer, R.  
1959

2.

Plectrophenax nivalis

6 June Barrow, Alaska

Many birds seen around ARL and surrounding bldgs. The ♂ were singing from the building tops. No other breeding activity was noted. Several were also seen in the Voth Area, S.W. of ARL.

7 June Barrow, Alaska

Several noted in the Drum Area at 1130 but no activity beside feeding was evident. Those in the base were singing.

9 June Barrow, Alaska

These birds are still abundant in the base and in the adjoining drum area. Today, 2 ♂ were seen chasing a female. When the ♀ was feeding, the 2 males fed, but if she would fly off - the males took off in pursuit and at this time fought among themselves. One would attack the other (while on the wing). Conflict was not seen when the birds were on the ground. Apparently territory-sites has not begun yet.





Holmes, R.

1959

*Plectrophenax nivalis*

3.

9 June Barrow, Alaska

1400-1600. Several birds which appeared to be paired were noted in The Voth Area. One ♀ was collected which contained ova up to 8 mm.

10 June Barrow, Alaska

These birds seem to be paired if now, for very few individuals are seen. The ♂ & ♀ are often seen chasing each other over the tundra. As a rule, however, the ♂ is the one in pursuit.

11 June Barrow, Alaska

These birds all seem to be paired now, and there are frequent chases across the tundra. Often the ♂ will chase either other ♂ or ♀ and the ♀♀ will often chase other ♀♀. There are rather noisy chases and may last for several seconds?

12 June Barrow, Alaska

One female (accompanied by a male) was seen carrying nesting material. They were on top of the barber shop - but across the "street" from the A.R.L. One pair was seen to copulate. They were both standing on a patch of exposed tundra.



Holmes, R.  
1959

Plectrophenax nivalis

4.

15 June Barrow, Alaska

Several pairs are building nests around the base. One is located under the roof of the barbershop. Another is in a stack of tires behind a shed about 30 yards behind HPL. The nest was composed of straw, ~~sticks~~, grass and mud. No eggs had been laid by this morning. The mud appeared to be stuck on the pieces of grass and it was probably not put there intentionally. At 1330, there were still no eggs in the nest. Also, none at 2200.

17 June Barrow, Alaska

The nest in the stack of tires contained 2 eggs at 1100. The pair were not present nor near the nest at this time.

18 June Barrow, Alaska

The above nest contained 3 eggs at 1000.

19 June Barrow, Alaska

The nest contained 4 eggs at 1200.

These birds are still seen frequently in pairs and nesting may not be completely underway yet. However, most pairs probably have begun their nesting. The males can be heard singing throughout the tundra at all times during the day.



Holmes, R.  
1959

Plectrophenax nivalis

5.

21 June Barrow, Alaska

The nest in the tirs now has 6 eggs, and the female is incubating. Several pairs are still seen flying and chasing over the tundra.

28 June Barrow, Alaska

The hunting are now paired off and are seen only occasionally. The male singing have slowed down with songs heard occasionally. The nest in the tirs still contains 6 eggs.

30 June Barrow, Alaska

The nest in the tirs still contain 6 eggs; none are hatching yet.

3 July Barrow, Alaska

0900 - All young have hatched from the nest in the tirs. The young have a considerable amount of feathers for just having hatched.

6 July Barrow, Alaska

These birds were common today especially among the many drums where are stocked behind A.R.L. Both males and females were present, and both were feeding. Several were seen under plumose, apparently molt is underway.



Hilmes, R  
1959

Plectrophenax nivalis

6

7 July Barrow, Alaska

These birds are still quite common over the tundra and especially near man-made dwellings or among the drums, etc. One male was singing behind the tent for about half an hour during the evening. Another was heard singing near HHCs in the afternoon. The birds are still often seen in pairs.

8 July Barrow, Alaska

A nest was found on the east side of the Butler Building, which contained 7 eggs. Also the "alarm or distraction" note was heard from some burtings just east of a lot who apparently had young out.

12 July Barrow, Alaska

The two nests (one on west side of the Butler building and one in trees) both have young which are about ready to leave the nest.

16 July Barrow, Alaska

A few birds are seen on the tundra. especially near Britton's area and near APL. Song has not been heard recently.





Holmes, R.  
1959

*Plectrophenax nivalis*

7

20 July Barrow, Alaska

Very few of these birds were seen during the last 3 or four days. Even around the house they were scarce. No young have been observed recently. One male was heard last night as he gave parts of his song.

23 July Barrow, Alaska

No juveniles were seen immediately behind the lab. Otherwise, none have been seen. Even the adults are now rarely observed.

25 July Wainwright, Alaska

Several broods were noticed around the village. They have been out for a couple of weeks, and the young are now attired in the smoky gray plumage.

28 July Pitt Point, Alaska

Several seen near POW 1.

31 July Barrow, Alaska

Three were seen near Freshwater Lake. Otherwise none were seen during the time spent in the field.

3 August Barber's Point, Alaska

Three were seen chasing on Colter Island, about four miles E of Barber's Point.



Holmes, R  
1959

*Plectropterus nivalis* 8.

5 August Barrow, Alaska

About 10 were present along the road adjacent to freshwater lagoon. They were flying back & forth between the lagoon & the dump.

11 August Pitt Point, Alaska

A few are seen around the base.

15 August Pitt Point, Alaska

Around the base, is the only place where these birds are now seen.

There seems to be the remnant of a family group which stay around the area. No others are seen.

20 August Barrow, Alaska

Very few have been noted during the last 2 days here at Barrow.

3 were seen near Freshwater lagoon this evening.

24 August Barrow, Alaska

3 seen along Freshwater lagoon and 2 seen behind APR.

26 August Barrow, Alaska

Several seen around the base and among the dump. None have been seen out on the tundra away from these areas.



Holmes, R.  
1959

*Plectrophenax nivalis*

9

28 August Barrow, Alaska

One bird found dead on the west side of Footprint Lake. Apparently its head had become lodged among the tracks (deaths) of a discarded weasel track.

31 August Barrow, Alaska

Three seen along the shore of middle saltwater lagoon and 6 seen in camp.

3 September Barrow, Alaska

Two seen near middle saltwater lagoon and three in Voth's Area. Otherwise they were rather scarce.

5 Sept. Barrow, Alaska

A flock of 12 seen along the shore of middle saltwater lagoon. One seen at A.R.C.



Holmes, R.  
1960

Plectrophenax nivalis

28 May Barrow, Alaska

These birds are now common around the base and singing and fighting was noted several times. Apparently territories are already established.

30 May Barrow, Alaska

These can be heard singing all around camp and in Britton's Area & occasional other tundra localities. There appear to be little territorial defense at this time. One bird was watched for an hour, and no encounters were made during this time. Its main activity was singing from the tower behind the lab with occasional flights to a few feet or hundreds of feet. The female was nearby, but no association was observed.

1 June Barrow, Alaska

Much fighting was seen today in the vicinity of ARL. Three birds, 2 ♂ + 1 ♀, were involved, but the ♀ was not very active. The 2 ♂ would "wobble" around on the ground & the female can often be seen in an aerial chase. This went on for nearly 10 minutes, until 1 ♂ flew off, & the remaining male then joined the ♀.





Holmes, R.

Plectroophonus nivalis

2.

1960

15 June Barrow, Alaska

♂♂ continue to sing vigorously from the poles & buildings around camp. Nests have not been found yet this year, but undoubtedly they are now nesting. Birds are seen quite commonly in Voth & Britton's areas and along the beach ridges.

23 June - Ikroavik, Alaska

None have been seen here (during the last 2 1/2 days we have been here).

29 June Barrow, Alaska

Two nests found around the base. One is in the tower behind the academy building. The young were partly grown (number unknown). The second nest was under the roof of a quonset hut just across from the C B building.

7 July Barrow, Alaska

Nest 1 The young are now out - both around the lab pod near Apes

18 July - Snow Buntings are now seen only around the dumps. Four are quite common.

25 July Many of the young are now out & can be seen most commonly around the dump & park & at the dumps.



Holmes, R.  
1960

Plectropternox nivalis

3.

30 July Barrow, Alaska

Very few have been seen during the past few days. Occasionally individuals or young are seen near the dump areas or in camp, but not on the tundra.

15 Aug - None have been noticed during the last two weeks.

25 Aug Several individuals seen near the dump areas. Most of them now have completed their molt.

3 Sept Several flocks noted today. One of about 25 birds was along Voth Creek. About 15 were flying back & forth around the Footprint Gate. Another group of 8 were near the New store / Ikroavik.



Holmes, R.  
1961

Plectrophenax nivalis

3 June Barrow, Alaska

Several birds singing in camp. 1 pr  
visited the weasel near Elsenborg  
when I was stopped.

7 June Bunting continues to be common with numerous  
birds seen in Voth's + Britton's area (1 several  
at Ikroavik yesterday). There seem to be  
fewer in camp this year - but this might  
be due to greater disturbance.

13 June Birds still quite active around camp,  
especially near Voth's area - but seen  
at Ikroavik where a pair is apparently  
going to use the weasel for a nest site.

17 June Nest found in LVT tracks - (on vehicle  
track) - behind APC buildings - 6 eggs.

4 July Still present around camp, partial  
song heard today.

6 July Flying young seen around camp + in the  
drum area.

7 July Flying young seen near Voth's house.

10 July The nest in the LVT tracks - contained  
3 - almost fledged young - There were  
branches. A nest in the observation  
weather-tower, so. (The 2nd (nesting) -  
contained 2 young, one of which was  
banded. The other flew away. - The  
adults were seen by other birds (O? &  
& other flying young) - all became visible.



Holmes, R.  
1961

Plectrophenax nivalis

16 July Barrow, Alaska

A few still seen around camp. Both  
Adult & juveniles are present. No  
Singing has been heard.

19 July - 1 partial song heard here at The bore

2 Aug - See occas among the drums or near  
The gravel area, No. of Britton's Rec.

10 Aug - See around the camp & drum  
Occasional - not too common.





Holmes, R.  
1962

Plectrophenax nevadis

28 May Barrow, Alaska

Pairs seen chasing around the camp & several songs have been heard. Individuals & pairs are seen near Voth area - near Family Lagoon & 1 ♂ singing was at the wamiga at Ikroavik.

29 May - Flock of 15 near Voth area - mostly ♂♂ - 1 ♂ singing - camp this evening.

30 May - Several pairs "investigated" the wamiga for possible nesting site & a flock of 6 seen near Voth & sun. 1 male seen doing an aerial display - gliding & then from on out-stretched wings singing.

1 June Small flock of 5 ♂♂; 2 ♀♀ - seen in flight - fl. hb. Several pairs seen in Britton's & Voth area. & a small group about 4 ♂♂. 1 song heard.

2 June 3 birds singing in camp - several in tundra near Elson Lagoon

3 June Scattered birds near Elson Lagoon

9 June Many birds around camp & in the tundra - ♂♂ heard singing frequently.

14 June Pr. with nest at wamiga - in an area - no eggs yet. - Also 2 other ♂♂ in vicinity.

20 June Nest at Ikroavik wamiga with 6 eggs - 2 incubated & being fed by ♂.

1 July Ikroavik nest with 5 young & 2 eggs at 2000. ♂ & ♀ attentive.



Holmes, R.  
1962

*Plectrophenax nivalis*

2.

9 July Barrow, Alaska

Ads still feeding young in wanning unit.

12 July Young are out but many are still being fed by the parents. The young at the wanning were seen for the first time in the 1st.

1 Aug Small groups of young & adults are now seen in Barrow; Area - & other localities near the coast (i.e. the camp).

6 Aug Many juveniles seen around camp & dump area but rarely in flocks.

29 Aug 1 black-white 'downy' young - just able to fly - seen on the gravel beach 1 mi S. of Point Barrow. No others noted.

21 Aug Only a few molting individuals are now seen & there are all over camp & in the drum area.



Holmes, R.  
1963

Plectrophenax nivalis

27 May Barrow, Alaska

One ♂ singing in camp. Two pairs seen -  
1 along north beach ridge, one near  
EISA lagoon. Both feeding by probing  
in the mossy tundra.

28 May Several seen in drum area & near Britton's area.

1 June Singing ♂♂ in camp, & seen carrying  
nesting material yesterday. Numerous  
pairs on EISA bluff - feeding - inspecting  
weasels, etc.

12 June ♀ carrying nest material into old weaver's  
house - south end / Fresh Lake.

24 July Bunting have been seen frequently in the  
vicinity of the camp & drum area.  
One pair ~~has~~ nested near the Shrover  
cavewygin - have only one out &  
flying now.



Holmes, R.T.

1964

Thryomanes nivalis

4 June Barrow, Alaska

Several pairs & single - seen near beach  
singing

11 June Copulation witnessed - on telephone pole behind lab -  
preceded by a loud song (1x or 2x)

17 June Nest with 6 eggs under large wooden frame on  
beach ridge - nest built on flat ground - lab.  
under the flat structure. (with 5  
eggs) in 5 ft. grassy area -





Holmes, R.  
1959

Acanthis flammica

3 June So. of Fairbanks, Alaska

These were seen frequently all the way from Fairbanks so. to within 20 miles of Paxson.

4 June Uniat, Alaska

Several seen at the landing strip - flying overhead

5 June Barrow, Alaska

Several seen near Nuwak.

8 June Barrow, Village, Alaska

1 seen so. of village.

15 June Barrow, Alaska

A pair was seen just east of the drum area. They were of the type known as the Hoary Redpoll. However in light of present opinion, they can be considered the same as the Common Redpoll (A. flammica)

17 June Barrow, Alaska

At least 12 birds were present on the drum area between 1830 and 1145. They were seen feeding among the large areas of dried grasses.

19 June Barrow, Alaska

Several seen along the beach ridge and in the drum area.

23 June Barrow, Alaska

A flock of 8 was noted near the beach ridge and also (one)

23 June. Barrow, Alaska

near The drum area. They were flying sporadically, would settle and then fly again. Chasing among members of the group was quite common.

24 June. Barrow, Alaska

Several more groups of 6-12 birds were seen flocking over Theundra. They would fly from one area to another, stop and feed, and then move on again. Definite pairs are seldom noted.

30 June. Barrow, Alaska

Several seen around tundra and around The base. The birds seen to be paired off now.

6 July. Barrow, Alaska

Several noted in The drum area and near A.C.S. They were all seen in pairs.

10 July. Barrow, Alaska

One pair seen in The drum area.

Holmes, R.  
1961

Acanthis Hammer

8 June Barrow, Alaska

Three seen together in the gravel area near  
fresh lake.

9 June - 4 seen in same area as above.

3 July - nest reported by R. Folk - to be near  
the west end / camp - on constructed  
materials - near Beach. - "eggs?"

5 July - nest with young reported by J. Kelly  
near the NE end / the airport on a pile  
of rocks. - with just-hatched young.

7 July 1 nest near Beach at w. end / camp -  
reported deserted - young dead in nest - Folk.



Holmes, R.  
1962

Acanthis sp.

Barrow, Alaska

23 June 2 seen near magnetic station on brown  
ridge. One was .5



Holmes, R.  
1963

Acanthys SB

15 June Barrow, Alaska

Several small flocks of 3-10 birds along  
fuel line - 2 (pair?) in Ikroavut  
census plot.

21 June Several - Ikroavut plot - mostly birds  
flying over - 1 on ground.

25 June 1 bird - plot. 2 seen near air  
area - AACS.

10 July Gulls 13-4 along fuel line





Holmes, R.

1904

Lean Air

5 June Barrow, Alaska

2 flying north along the coast ridge.

16 June 1 flying over land ridge - heading north.

18 June 2 together - kept together at west end of

Tregulwin IX, X.



Holmes, R.  
1960

Acanthis "hornemanni"

5 June Barrow, Alaska

2 heard flying over ARL.

28 July - Several have been seen during & lost several days - near Fresh lake. These have been seen feeding along the shore of the lake & in the ponds across the road. Several were also seen at Meade River Coal Mine on 23 July.



RTH  
1963

## North EISA Removal

27 May, Barrow, Alaska

Began removal / birds from tundra colony,  
EISA lagoon - between Brant Pt. + area -  
100 yard no. / Wildlife delay - see next page.

### BIRDS TAKEN TODAY

2 puffins (♂)

2 ♀ melanotos

1 ♂ alpine - at south end

29 May

- 2 ♂ PS - seen - no / Wabe.

2 BS .    near Brant Pt.

1 June

2 ♂ PS . 1 counted - No / Black tr



RTH  
1963

# NORTH ELSON Removal

3 June

BRANT PT

$\square$  = seen - not coll.

O - colored

noting that 1#2

STORPED CONNECTION

not correct

Wm

$\{1, 2, 3, 4\} = \text{PS-collected}$





Hemus, R  
1963

Removal

3 June Barrow, Alaska

#1 taken from Northern ad 10 - standing up - not at  
the feeding entrance. None seen north here

2 RB (pr.) collected at southern 1B -

Found 4 RB at 10. ad 1/E - 1 coll.

2 RP

1 RT at 10. ad 1/E

4 ... .. E

8 June - SP - in South B -

12 ♀ - 2 ♂ PS - in South B

1 BUFF-BR. 5 ad

1 DISPARATE PS - ♂

C - 1 ♂ PS - collected

SoC - found 16 ♀

NID - 2 RT - with nest, 1 Mint - 1 Red-bellied

Co. D - FL 1 / 16 ♀ - 4 ♂ - in display at 10C,

E - 2 RT - 1 RT at 10. ad 1/E

10 June A-B - nothing

C - 1 RT

D - 2

E - 1 RB chased - not coll.

1 RT - " "

1 ♀ + 1 ♂ PS - coll.



RTH  
1963

## N.E. Removal

12 June Barrow, Alaska

A + B - are not being used -

C - coll. 1 ♂ PS - who had chased Soc(3)  
bird, ever time to the north.

D - 2 RT - 1 PS - clear - may have been in  
one coll. about

E - 1 RB display - ~~coll.~~ coll.  
1 RT - coll.

17 June - Took 1 display in PS - ♂ from C  
H " - Saw 1 RB in C - but could not collect

23 June - No D - Took 1 ♂ PS

Soc - Saw 1 ♂ PS - chasing 3 wanderers  
- also 1 RB - displayed briefly.

26 June - Soc. C - 1 collected - ♂ PS  
No. D - 1 ♂ PS - chasing a group of 9  
- sev. groups of PS seen  
1 RB - seen



## Shorebird Predation

17 July

Nest of PS - on Sh. plot - #15 with both  
egg shells - & 1 egg several inches  
from nest.

19 July

Carcass of Ad ♂ PS - eaten - exc - brown &  
puffins - on tundra - Band 1 BR-E 1 HAW

20 July

Carcass of Red Phalarope - eaten down to  
bones & a few feathers - some H. goshawk R.



R.T. Holmes  
1964

Stomach Contents

2.

15 June - Barrow, Alaska

C. melanotos - ♂ maclean # 231.

Small fragments of Staph. <sup>Ad.</sup> beetle (1+) + Spider (1+)

64-1 - F.A.P. - ♂ C. fasciicollis

2 Tipula cavinitron - med.

3 Carabid beetle - Ad

1 spider

64-2 - FAP - ♀ C. fasciicollis

12 Pedicia - lge

1 lge Prionocera

3 spiders

1+ Ad. Staph.

64-3 - FAP - ♀ C. fasciicollis

4 m. Tipula , 2 Pedicia - lge

1 spider

1 Ad. Staph

64-4 - FAP - ♂ C. fasciicollis

5 lge Prionocera

1 spider, 1 Ad. Staph

Tryngites subtrifasciatus - Loysden, # 64-1

1 m. Pedicia

- 5 m. lge - m. lge

2 Carab. Beetles - Ad

2 Staph - Ad

4 spiders





JR TH  
1964

3

## Stomach Contents -

PAP #

64-5

C. fuscicollis

1 Staph. Ad

1 m - Tipula

64-6 - C. fuscicollis

1 lge, 3 m Tipula

1 carab. ad. -?

64-7 - Tryngites subruficollis

1 lge Tipula

1 sm. muscid larva

3 lge Pedicel

1 Ad Chironomid -? (med. sized ad - l. larva)

1 pupae. Dypt (muscid) -

3 Staph Ad

2 Spider

64-8

T. subruficollis

Staph. Ad - (sev) fragments, 1 ad carabid

1 "fly" wing

1 lge Tipula

sev bits of green vegetation

64-9 - C. fuscicollis

1 spider, 1 Staph Ad

64-10 -

C. maculatus

4 sm Chiron

2 Pedicel - lge

Somateria mollissima - 1 giga - 10 giga 64-3

→



RAT  
1967

## Ismael Contacts

4.

Barrow, Alaska

- *Somatia* - cm<sup>11</sup>

50+ Lge Chironomid larv.

30+ 1st Trichoptera larvae (larvae);

few seeds, few .

FAP

64-11 - *C. pumilio*

1 spider, 1 stage Ad.

6 Lge *Pedicia*

64-12 - *C. fuscicollis*

2+ Ad Staph

1 spider

64-13 - *T. subruficollis*

8+ spider

2+ Ad. Staph.

4+ Ad. Carab.

(many beetle fragments)

64-14 - *T. subruficollis*

2 spiders, 1+ Ad. Staph.

64-15 - *C. fuscicollis*

5 spiders

26 intact Lge *Pedicia* larvae (all 13-16mm)

10+ old *Pedicia* skins

2 Lge *Prionura* (21, 22 mm)

64-16 - *C. fuscicollis*

1 Ad. Carabid

8 - old *Pedicia* skins

19 *Pedicia*



Holmes, R.  
1964

Stomach contents

5.

Barron's, Alaska

June - Polysticta stellari - Logden 64-4 - old nothing distinguishable

FAP - 64-17? C. melanotos - empty

June 21 Calcaricus lapponicus -

12 lgs (13-16mm) Pedicia larvae

6 spiders

5 Chironomid larvae (all < 5mm)

1 Ad. Staph.

RTN-2304 - Phalaropus - vegetation fragments

June 23 FAP - 64-18 - C. melanotos

1 Pedicia pupa (+ 3 microtine fecal)

2 Ad. Staph.

1 femur  
1 vertebra

1 Ad. Carab.

1 Spider

1 musc. pupa

64-19 - Phalaropus

bits / macerated vegetation

1 chrysomelid beetle

June 24 Logden 64-5. Squatarctia

1 Dipodomys skull

8 Trinacromys pupae

13 Pedicia larvae

24 Tricorynus larvae



RTH  
1964

## Stomach Contents

6.

June 24 Tenaza 155 - Tryngites

16 lgs *Tipula* pupae (mostly - hirs)

2 ad Carabids

1 Spider

FAP 64-20 - Tryngites

fragments of Coleoptera ad (Staph + Carabid)

FAP 64-21 - Tryngites

- 2+ muscid pupae

- 1 small ad. dipter. (wing)

2 spiders

June 25 FAP 64-22 Tryngites

- 1 lgs *Tipula*

3 Ad. Carabids

3 lgs *Pedicia*

1 Ad. Anthomyid

1 lgs muscid larva

1 " " pupa

H.E. Child 5650 Tryngites

1 Ad. Staph j 1 Ad Carabid

1 larv. muscid

1 lgs larval Sawfly - Tenobridini

1 sm ad dipter. wing

1 Ad. Hemiptera

FAP-64-23 Tryngites

2 lgs *Tipula* larvae

1 Ad. Staph

1 muscid larva

sv. vegetal fragments





Holmes, R.

Stomach contents

7.

25 June Barrow, Alaska

RTH-2405 - Tryngites

1 Pedicis larva

3 Lyr Tipulae larvae, 1 Tipula pupa

1 sm. ach. wing; 1 ad. anthomyid

1+ Ad Carabid;

1 spider

Macken 239 - C. canutus - Empty (ch. - unign)

- many 100+ small (O - adult size)

prim<sup>u</sup>-reddish pupal cases.

FAP 64-24 - Phalaena

1 Dytiscidae

4 Pedicis Stems

FAP 64-26 - Tryngites

1 chryso. Ad

- many frag. / bone +

2+ Carab. Ad

microtarsus teeth

4 Lyr Pedicis

1 Lyr Tipula

RTH-2406 - C. fuscicollis

1 Carab. Ad

3+ Tipula pupae

4 muscid larv.

RTH-2407 - C. fuscicollis

- Empty

FAP 64-25 - Tryngites

6 Staph. Ad

- 1 - st. - sp. -

2+ Ad Carab

2+ Ad. Hemiptera

2 Ad. Dermaptera - small - wing



1964

5 fernside 5

26 June FAP 64-27 Trypeta

6 Ad. Carabid

2 spiders

1 Yr Tipula pupa

1 Chrysomelid Ad

8 Stag Ad.

27 June FAP 64-28 - Trypeta

2+ Carabid Ad

2 spider

8+ Stag Ad

1 Chrysomelid Ad

4 Yr Tipula larvae

1 " " pupa

FAP - 64-29. C. bairdii

18+ Pedicia (15-17mm)

3 Ad. Staph

1 Carab Ad

1 Dipt. pupa

FAP. 64-30 - C. melanotos - empty

Maclean 242 - C. albina

2 Ad. Carabids

1 spider

2+ Ad. Stag

FAP - 64-31. Thalassius

3 spider

5- Chironomid Ad.

10+ Stag Ad

6+ Carab Ad

+ many fragments  
beetles ?

2 Dipt. Ad.

1 Coleop. (lar)



RTT  
1964

# Stomach Contents

28 June Barrow, Alaska

RTT-2408 - C. fuscicollis

1 + Ad. Carabid

many fragments - beetle?

2409 - C. fuscicollis

2 spiders

7 Pedicic. pupae

29 June HEC 5663 - C. fuscicollis

1 + Carabid Ad

2 + Ad. Tipid. (wing) - sm.

+ Ad. Chrysomelid

3 + man frag Ad. Hym.

HEC 5664 - C. fuscicollis

3 + man frag. Ad. Staph

1 Ad. Tipulids (eggs)

HEC 5665 - C. fuscicollis

1 + Ad. Chrysomelids

2 spiders

1 Ad Tip. (egg)

Maclean 244 - C. fuscicollis

3 + Ad. Staph.

1 Ad Chrysomelid

30 June FAP-64-32 C. fuscicollis

2 + man frag - Ad. Staph

3 + spider

1 sm. wing



RTH  
1964

## Stomach Content

29 June RTH-2410 - C. fuscicollis

3 Lyr Tipula pupae

1 Ad Carab

1 Ad Staph

RTH-2411 C. fuscicollis

25 larval Chironomids - (15-18mm)

1 larval muscid

30 June Maclean - T. subruticollis

1 Pedicia pupa

1 muscid pupa

1 spider

FAP 64-33 T. subruticollis

~~Tryngites~~ 1 Ad. Tipula

16+ Ad. Staph

1+, Carabid Ad

6+ Ad Chironomids

2 Lyr Tipula skins

3+ spider

4 und small Diptera

1 Mycetophyllid

FAP 64-34 - Tryngites subruticollis

2+ spiders

1 Ad. Tipula

2 Ad. Hymenoptera

2+ Ad. chironomids

2 Ad. Mycetophyllids

1 Ad E. cur fly; 1 larval sawfly

6+ Ad. Staph.

1 Lyr larval Tipula





RTH  
1964

## Stomach Content

30 June FAP 64-35 - Tryngites subruficollis

1+ Carabid Ad.

1 Sawfly Ad. 1 spider

2 " larva

10+ Ad. Staph.

4 Ad. ~~Staph.~~ Anthomyid Ad.

6+ small Diptera

2 Ad Chironomids

FAP 64-36 - Tryngites subruficollis

1 Ad Ichneumon, 1 Ad sawfly

4+ Ad. Staph.

1 spider

1 Ad Tipula

+ 6? wings - sm Ad. Dipt.

RTH - 2412. - Tryngites

5 Ad. Carabids

1 Ad Chrysomelid

3+ Spiders

1/2 Pedicia larva

3 Ad Staph.

1 July RTH - 2413 C. fuscicollis

1 spider

1+ Staph Ad

1? sm ad. Diptera

1 Ad Pedicia

1 Ad. Carabid.



7 July

RTK. 2414 - C. fuscicollis

1 Ad. Anthomyia

2+ Ad Sten

2+ Ad. Carabid

1 larval pedicia ; 1 cy. ad muscid

1 Ad Tipula

3 sm ad Diptera

4 Spiders

FAP 64-37 - Tyrannus subroticollis C. fuscicollis

3+ many frag Ad. Sten,

3+ " " Spiders

1 sm. ad. Dipt. wing

FAP. 64-38 - T. subroticollis

1 Chrysomelid Ad

1+ stag Ad

many tipulated egg - some leg fragment

1 sm Ad Dipt. wing

1 Ad. Diptera Hemiptera

FAP - 64-39 - T. subroticollis

1 Ad. Chrysomelid,

2 Ad Pedicia

1 Ad. Chironomid + 3? sm ad. Dipt.

1+ many fragments -- stag Ad

1 Ad. Chironomid



FAP 64-40 - Tryngites subruficollis

1+ Ad Tipulid

3+ many frag Ad. Staph

2+ Ad. Carabid

FAP 64-41 - T. subruficollis

1 lge Tipula larva ; 1 muscoid pupa

6+ many frag. Ad. Staph

3 Ad. Chironomids

4 ? Ad. Diptera - small

1 sawfly larva

1 Ad. "

1 Ad Tipula

FAP 64-42 - C. fascicollis

3 Ad. Staph

1 larval Tricorythina

1 Ad. Carabid

1 spider

RTH-2415 C. fascicollis

21 Ad. Staph

1 pupal immo

1 Ad. Carabid

1 Ad Tipula



RTH  
1967

# Stomachs

2 July

RTH - 2416 - T. subruficollis

2 Lge Tipula larva

1 Lge Ad. Saw fly or Braconid -

3+ Ad. Staph

3 ? Ad - sawid

2 spiders

RTH - 2417 - T. subruficollis

many frag of Staph Ad - (10-15?)

3 sm ? ad. Diptera

1+ Carab. Ad.

2 spiders

1 Ad. Anisomyia

1 Saw fly larva

[Sev. microtine teeth]

RTH - 2418 - T. subruficollis

1 Ad Braconid

2+ Ad Carabid

1+ Ad Tipulid

many frag. Ad. Staph (10E)

6+ Ad. Diptera + 1/2 1/2 1/2 1/2 1/2 1/2

1 med. larva Tipula

2 spiders





# Egg weights

1964

June 19 C. melanotos - collected - So. (Verm.) Area

$$\begin{array}{r} 36.3 \\ - 22.9 \\ \hline 13.4 \end{array}$$

$$\begin{array}{r} 35.8 \\ - 22.9 \\ \hline 12.9 \end{array}$$

$$\begin{array}{r} 36.1 \\ - 22.9 \\ \hline 13.2 \end{array}$$

$$\begin{array}{r} 35.7 \\ - 22.9 \\ \hline 12.8 \end{array}$$

(8mm Embryo) - 3-4-5 days

June 22 C. bairdii - collected in same area.

$$\begin{array}{r} 25.6 \\ ~~26.0~~ \\ - 15.9 \\ \hline 9.7 \end{array}$$

$$\begin{array}{r} 25.4 \\ - 15.9 \\ \hline 9.5 \end{array}$$

$$\begin{array}{r} 25.4 \\ - 15.9 \\ \hline 9.5 \end{array}$$

$$\begin{array}{r} 24.9 \\ - 15.9 \\ \hline 9.0 \end{array}$$

- grams



R. Holmes

1959 - 1964

Species Accounts – Part 4

Mammals



Holmes, R.  
1960

## Lemmus

### Barrow, Alaska

-all observation made between 28 May and 30 June have been recorded in the journal.

1 July

### Ikeravik (Barrow), Alaska

During the past couple of weeks since the snow cover has been gone, fewer and fewer animals have been seen. The amount of digging has increased as the permafrost table has lowered, and today it was especially noted that the tunnels are now deep & appear to go back at least 1 or 2 feet into the polygons. The runways are now well used and are prominent features of the tundra landscape.

4 July

-The amount of shredding of the moss is most striking. Most of this work seems to have been done during the winter and now this cut material has turned brown while the new growth & uncut moss is green. In some areas, it is possible to peel up huge masses of shredded moss which have been worked over by the animals. In other areas whole beds of moss & other



Holmes, R.  
1960

Lemmus

2.

4 July Iktroavik, Alaska

across on the top / polygons have been torn & chewed up so that the surface of the ground is in shambles. It is no wonder that the insect population is disturbed by the lemming's activities.

6 July Barrow, Alaska

Reynolds, Warner & I completed a lemming census today which was started last evening. This was two 1000' x 50' plots adjacent to Trough 7 and 8. The lake was similar to the trough lake & has been rounded & kept by Reynolds.

9 July Iktroavik, Alaska

While running the plot last evening & today, it was noted that numerous dead & partially eaten lemming carcasses can now be found. I would guess that in my wandering on the 100 Acres, I have seen 30-40 carcasses & of course, there are many I must have missed. These are apparently frozen hills where the birds have eaten just the viscera or something a part of the body.





Holmes, R.  
1960

Lemmus

3

9 July Iktroavik, Alaska

There seems to be a very noticeable lack of water this year on the tundra. Most of the shallow ponds have dried up & the polygons & ridges are bone-dry. It is even possible to sit on the mounds of moss without getting wet; this was impossible last year. It seems probable that the cut grass allows the water to soak into the soil with little retention at the surface. Also with the good weather we have had, the water has evaporated rapidly, leaving little water left. This seems to be another important aspect of the lemming on the tundra.

13 July Barrow, Alaska

The lemmings are still present but are not seen frequently. The majority of the ♀♀ now seem to be pregnant, so there should be a good reproduction in the population in a few weeks. Jaegers are still plentiful and are taking a fair number of lemmings. Mohr reports that sex ratios in the lemming carcasses at his mesons



Holmes, R.  
1960

Lemmings

13 July Barrow, Alaska

nests are now in favor of The #4.  
We have not been checking the trap-  
line anymore, as I am not  
sure of our ratio there. It seems  
likely (?) that many of the #2 have  
been removed during the east  
period, and thereby shifting the  
ratio towards The #4.

15 July - A census was taken today parallel  
with the trapline in A+B. No animals  
were dug out, etc., but four were  
found (see notes for results). One  
nest was located & it contained  
8 young - which must have been 8-10  
days old. Several other old nests  
were found. These may have been  
used last year or even 4 years ago.

17 July Barrow - Ikroavik, Alaska

The trap line takes has fallen off  
during the last several days; however,  
the differences in habitat may  
account for this.

21 July Barrow - Ikroavik, Alaska

Several young juveniles were  
seen today on the census plot,  
and fresh digging was noted.  
The effect of the lemmings on the



Holmes, R.  
1960

Lemmus

5.

21 July Barrow - Iktovik, Alaska

moss seems to be primarily a winter or early melt-off phenomena. The moss patches are rarely touched now; however, it is still possible to see where they had been cut into, often just a notch too into the moss - for the reason of feeding. It seemed like more animals were seen today during the census than during the past two weeks. Maybe with the young weaned & the ♀ now more active, there are more animals to be seen.

23 July Meade River, Alaska

The natives at the coal mine said that mice were fairly common this year, but from looking at the tundra, I don't believe that the microtine density was very high. There were no runways to be seen, no cut grass, no pellets even when the ground was closely examined. One lemmus was caught, & this was the only animal seen during our three hour stay at the Coal Mine.



Holmes, R.  
1960

Lemmus

25 July Barrow, Alaska

Juveniles are now being seen quite commonly, especially in the trough where the cut grass has accumulated and where there are covered tunnels. The adult animals are still being seen, but not as common as before. Lemming activity on the ridges now seems to be confined to the areas of polygons and very few are now seen along the ridge top. Animals are still present in the marshes, especially in areas where there is <sup>now</sup> dead grass. In the areas where there are low polygons with troughs 1-2 feet deep, which are covered with cut grass, the lemmings sign on the best, and usually lemmings can be caught there.

Predation is still extremely important, since now that the jaeger and owl chick are getting to be good size, they are requiring more & more food.

Of course, the adults are still here too, so the impact of





Holmes, R.

1960

Lemmings

7.

25 July Barrow, Alaska

predation is still quite high.

26 July Iktroovik, Alaska

lemmings appeared to be quite common in the vicinity of my census plot. Areas there have a topography such that there are troughs of moderate depth which have accumulated a pile of dead-cut grass. In these grass layers, there are numerous holes and runways - in fact the areas appear riddled. It was possible today to walk through these troughs and scare up many juvenile lemmings & several adults. This was especially true in the southern half of the plot (Stake 10.0 - 25.0).

In other locales, this abundance was not noted, but also, these other areas were not walked through.

29 July Barrow, Alaska

No lemmings nests were found on the marsh this afternoon & none have been reported (except by J.R. - see Reynolds notes).



Holmes, R.  
1960

Lemmings

8.

3 August Barrow = So Barrow 3, Alaska

Individuals were seen regularly during the trip. Juveniles appeared to be seen more frequently than adults. Sign was good all the way to So. Barrow 3, as was joey & owl densities. Runways are still being heavily used in most areas, but these are becoming localized. That is, there will be a patch of very well used pathways, & burrows in low troughs or polygon-edged & then there may be <sup>another</sup> area 20 or 30 feet away. This may be due to habitat preferences or to the effect of predation? - in removing a certain percentage of the lemming population. Weasels are shown up occasionally now. Several have been found in the line plot, and Britton reported a den of weasels in Britton's Area (about 2 weeks ago). Another lemming predator, the arctic fox (1) was seen today South of Low Lake. This is the (2nd) seen Barrow this year (?). (reported)



Helmes, R.  
1960

Lemmus

9

6 Aug Barrow, Alaska

Near Ikroavik today, good lemming sign was observed. Many of the runways are well used, and usually can be traced to the burrows which are in use. The animals are seen frequently - most of these being juveniles. The tundra is still dry and most of the puddles have dried up. Only the larger ponds are still in existence. The lemmings have utilized the drained troughs and many of the runways are located here. No lemming nests have been noted recently, & most of the ♀♀ huddled have already dropped their litters.

12 Aug

Barrow = Ikroavik, Alaska

During the last 3 days, we have had a terrific rain which has flooded much of the tundra. Many of the runways are now underwater, and accordingly some of the burrows are filled with water. We have seen a little bit of freezing water also, but not enough to cause any



Holmes, R.  
1960

Lemmus

12 Aug Barrow, Alaska

The holes, etc. No surface nests have been located recently.

15 Aug Barrow = Ikroavik, Alaska

Lemmings still seem to be relatively common near the lake, and the runways + burrows are still well used. The traplines are holding up amazingly well + prospects look good for a fairly high population later in the fall.

21 Aug Barrow = Ikroavik, Alaska

The traplines are still doing well. The animals seem to be more active in the dark period, since much greater numbers are caught over night. They are still seen frequently, however, during the day. The predators are still present in large numbers, especially the jaegers since both adults + in many cases two juveniles are living of the territory. Owls have become more inconspicuous and are seen only occasionally. Many of the polygonal areas show excellent lemming sign. Some of the runways which were used in the spring





Holmes, R.  
1960

Lemmus

21 Aug Barrow = Ikroavik, Alaska

have been abandoned; others are still in use, and these are very noticeable and are well-travelled. Many of the runways are still in among the cut grass + are  $\therefore$  invisible when looking at the tundra. No new nests have been noted, + the old winter nests are usually so wet that they are now used. Pieper & Willen believe that the animal damage to the vegetation is about even with the rate of production of the vegetation. This is only an estimate made by observation. Willen reported seeing an area that had recently been disturbed by lemming activity.

30 Aug Barrow, Alaska

Nothing has been especially noted during the last week. Most of the time in the field has been spent in Central Marsh, the fertilized plots + areas in between. One area in the old lake bed at the upper end of Wohlsehby Slough has mossed + grown sections



Holmes, R.  
1960

# Lemmus

30 Aug Barrow, Alaska

in rows. These areas are riddled with lemming runways, holes, etc, and animals have been seen rather commonly. Runways are still in use; there are still localized however. A general pattern was noted today near the fertilizer plots. This is diagram below



There are holes with 1 or 2 well-used runways. These then may lead to other holes 15 to 30 feet away from where other runways take off.



Holmes, R.  
1961

Lemmus

3 June → 16 June Barrow, Alaska

- See journal notations

17 June Barrow, Alaska

The tundra sign looks good but all is from last year. Only about 4 have been seen in the last two weeks; 2 of these were brought into Mullen.

Occasional dead animals have been found; those in good condition were given D. A.M. Others appeared to be remnants of last year's hunger or activity.

Scattered but few are seen, but these appear to be disintegrated jagor pellets. A dead weasel was found N. of 10th Ave - but it may have died last fall. - It was just laying out on a bare ridge - in a slight trough.

The number of lemming contraptures is quite amazing. They are more frequent near Ikroavik where nearly every fringe & depression has 1 or more. Some of these are still intact - including the entrance hole & the side. Others are a bit more dilapidated. All have been ground & only 2 have contained lemming remains - estimated # of rats checked - 150+. Contrasts, but



Holmes, R.  
1961

Lemmus

17 June Barrow, Alaska

That there are more nests this year than last - which seems absurd. If this is the case, the the animals must have lived for awhile under the snow.

The animals from the village have stocked off, so apparently they are giving out there too.

20 June Barrow → Iktroavik, Alaska

One seen near Voth's area, as we headed to Iktroavik; it was caught + killed. Some mullen is at Pitt Point to where we were just heading south to the lake.

24 June Barrow, Alaska

activity is still poor - very little fresh workings have been detected because of the difficulty in separating sev. day old pellets from yr. old pellets. Predator activity has declined. No *Pomarine* were seen today - but there were a few *cor.* - *t.* + *porroscites* in the vicinity. A fox was seen hunting near Oolypik Slough.

24 July Barrow, Alaska

None seen during the last month. Jay activity has declined, but weasels have been reported (see FAP-JOS)

Of 14 winter nests in the B.R. - 10 are empty - 5 had weasel signs.





Holmes, R.  
1961

Lemmus

26 July Barrow, Alaska

of 8 nest checked in 5Wya - 4 had weasel-  
destruction signs



Holmes, R.  
1963

## Lemmus

27 May Barrow, Alaska

Peipert & I visited Beale Ridge - where we saw no fresh lemming sign - although one or two Pom. Jaegers were seen along the south part of the ridge. Along the North shore of Wohlseh Slough & the west shore of Elson, localized areas of lemming activity were found. Most of the cutting was along the runway systems & large areas of <sup>no animals seen</sup> uncut vegetation were most noticeable.

28 May The drum area shows extensive cutting - not only at sides of runways but also in polygon types. 6 animals (all large except 1 - J-SA size) were seen - darting under the snow cover.

From Britton's area - to wind plot to valley slough, considerable sign was seen - some places it was extensive - all the vegetation being cut - while in other spots - the cutting was only along the runways. In general, the cutting was more spotty - with large areas not touched. Several animals were seen during the afternoon.

Little activity evident between Wohlseh & Ookpek sloughs - 1 animal seen - 2-3 jaegers hunting in the area. Beale Ridge near gasoline had some cut vegetation but is not completely exposed yet.



Holmes, R  
1963

Lemmings

2

1 June Barrow, Alaska

As snow is melting from tundra, more & more lemming sign is becoming visible. Many troughs are eroded by runways & the vegetation is cut. Again, there are somewhat patchy or localized but then aggradation of the moderate lemming activity. Occasionally, what traveling animals are seen - scurrying under a snow or along the edge of a snow bank. Only 4 winter nests have been found, all were empty & contained no sign of predation, etc.

4 June In the last few days, only 2 or 3 lemmings have been seen in the field - fewer than in the preceding days.

8 June Moutons is becoming exposed now & the amount of lemming activity can be better assessed. There are large areas (many acres) with no sign; other localities, like Ikroavik - Village along bluff, are heavily cut & of several winter runs were seen, as well as 4 lemmings. Again, lemming seem to be distributed spottily - in local areas. Beaulieu shows little activity - but areas with more polygons & troughs seem to have more.



Holmes, R  
1963

Lemmus

9 June Barrow, Alaska

One / heaviest concentration (by cut vegetation)  
located on north shore of Colville Sound -  
The area covers 500 yds x 50 yds -  
had its vegetation 80-85% cleared. No  
animals were seen but foxes & 1 owl  
were present in the vicinity

10 June Checked 8 nests today - none were  
unusual - all mod 1 grass in  
centres were pile / present - no sign of  
weasel predation

11 June Good sign / cut grass, well-used runways,  
burrows, etc - on bluff - west of 10A  
creek - across Cacheob Road from Tray  
II A-B.

15 June Sign on Ikroavik Census Plot - is extensive -  
perhaps 35-40% cut vegetation, good  
runways - 1 animal seen

17 June Checked 11 winter nests on the census  
plot today - nothing unusual was found -  
Nests are plentiful - average 1 about  
1 / 2 acc. (estimates). Several animals  
seen in the plot today.

21 June 24 nests checked - nothing unusual. - Ikroavik

25 June 16 more nests checked - plot - nothing new

30 July Three seen during 7 1/2 km - Ikroavik plot - but in  
general, they seem to be getting scarce.  
Perhaps, the year will be showing up soon





RTH  
1963

Lemmings

4.

20 July Barrow, Alaska

Scattered individuals - most of which seemed to be sub-adults. were seen on the Ikroavik census plot. - This area also has good lemming sign - i.e. freshly formed runway holes - which are currently being used. Fresh droppings are evidence.

6 Aug lemming sign was good on the Ikroavik census plot - well used runways & holes, fresh feces, etc. 9 J-S.A. were caught & transported back to lab for J. Johnson. - but none were seen until the burrows were stepped on - i.e. little surface activity.

12 Aug Checked area between Wahlshlog & Oolpik Sloughs - with J. Johnson - saw two juveniles & caught 1 sub-ad. - fair amount of activity - or at least sign - but animals were hard to find.

25 Aug Sign has not increased noticeably during August. Animals have been seen infrequently - usually in areas where runways are showing sign of use - i.e. there is sign where animals are & the general absence of sign indicates a low pop.

Predators - Poon. J. still hunting on tundra - few owls present.



Holmes, R.T.  
1964

Lemmings

- 4 June Barnett Alaska  
Local pockets of lemmings are found - on  
south shore of Wohlsehlag + in center  
Marsh. In driving to Oolupik + E (12 mi) -  
saw 14 animals on coastal. Many are  
skin little or are cutting but others  
are burrowed. - also 'predator' -  
good at this time.
- 5 June  
- good on Wohlsehlag - 2 seen  
to west - most around coastline [Harry  
Brown report lemmings abundant south of the  
Village - others only a few were seen at  
Mud Lake where he visited last week]
- 8 June  
Saw 1 on this pm near AHS - most  
along the raised mounds to the west of  
the buildings. Numerous tunnels are  
noted - it says - most are not  
new - old - but evidently were  
during the winter.
- 10 June  
Most extensive cuttings so far - found in Uoth area  
where all of the tundra have been heavily  
worked by lemmings. - but only 1 seen.  
Also - several large (20 x 40') patches of cut  
grass is present - Uoth bluffs. <sup>26</sup>  
Winter nests checked today - with no evidence  
of predation - mostly 1 young, etc.
- 11 June  
5 seen on or near head ridge. Predators have  
decreased in last sev. days.



RTH  
1964

Lemmings

20 June Barrow, Alaska

Not many seen in the last several days - but frequent  
diggings are now seen where burrows are being  
made &/or repaired & fresh dirt is thrown to  
the surface.



Holmes, R.  
1960

Alopex lagopus

3 August Barrow = So. Barrow 3, Alaska

One immature seen a couple (?) of miles south of Loon Lake. The pelage was brownish with light areas (making it appear blotchy). The ears were noticeably small & rounded.





Holmes, R.

1960

Mustela roxosa

11 July Barrow, Alaska

A weasel den found on the beach ridge in the middle of Pitelka's Plot, yesterday. Today when it was visited, only one individual was seen & photographed (see journal for description).

21 July - At least 1 weasel was still present at the mound. It is hard to estimate the overall effect of predation - since the mounds are quite deep. The animals will, however, come out & take a look whenever we are plowed ~ the mound. Another den was reported by Britton. It is located in Britton's Area (see Maher for detail).

2 Aug - No weasels seen at the mound ~ the beach ridge.

See Warner's Note for weasels, compare the line plot.



R. Holmes  
1963

Mustela rixosa

28 June Barrow, Alaska

one small adult (F.) seen in burrowsystem in  
flood-typed polygon 100 yd south of south  
salt lagoon.









